

FM/AM STEREO RECEIVER

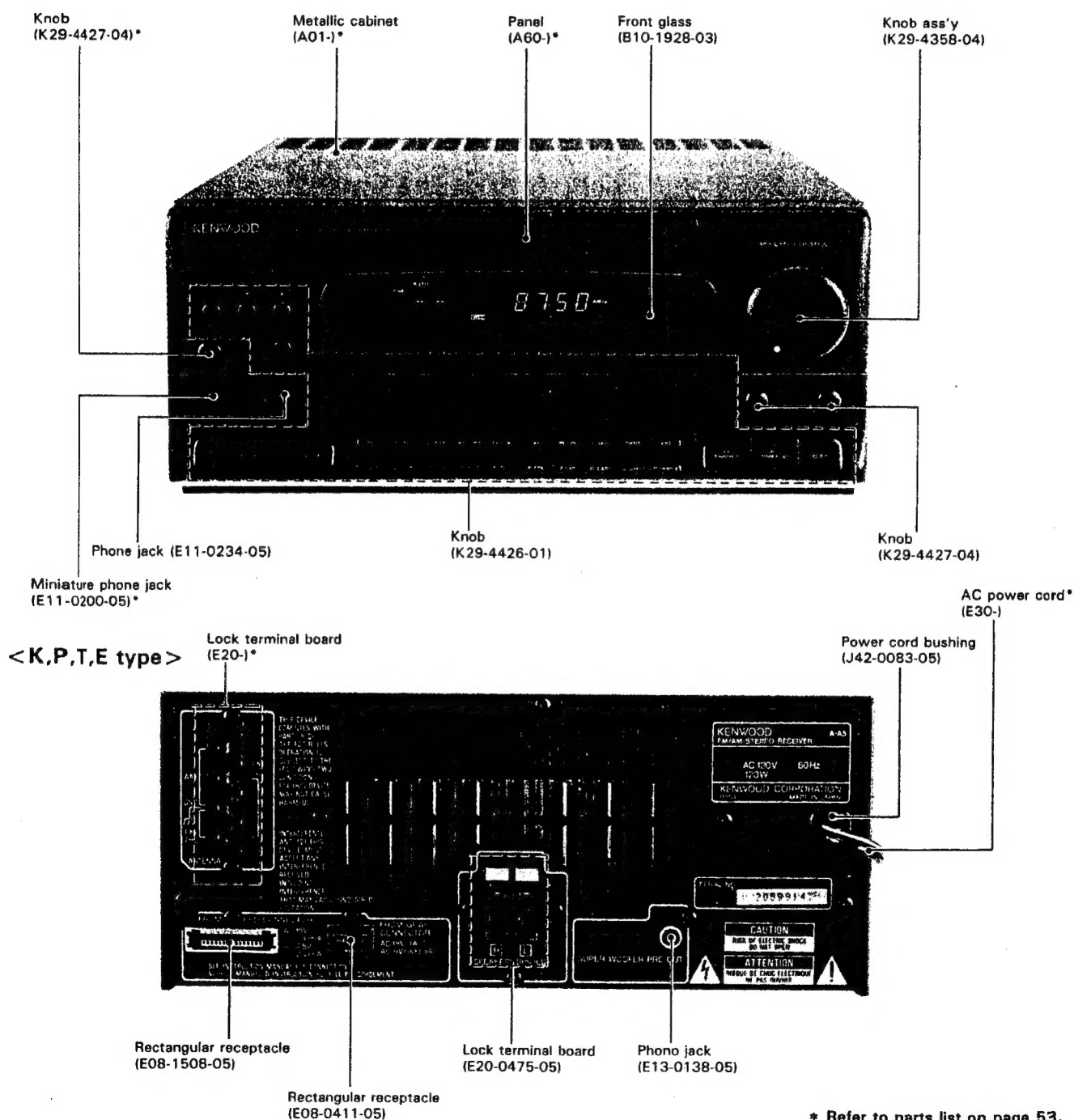
# A-A5/A5L

## SERVICE MANUAL

(COMPACT HIFI SYSTEM  
UD COMPONENT SYSTEM UD-500/500M)

# KENWOOD

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B51-4600-00(MC) 4114

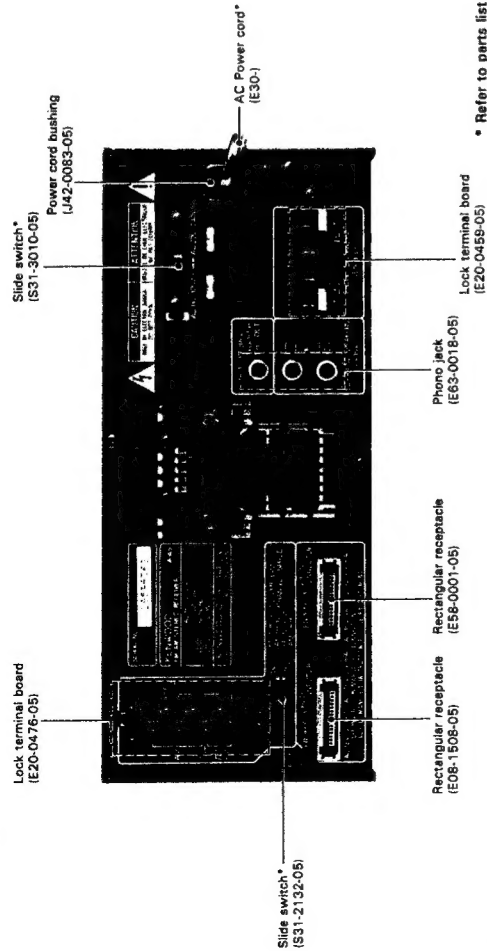


\* Refer to parts list on page 53.  
Photo is A-A5.

[ A-A5 : K,P,Y,M,X type  
A-A5L: T,E type ]

Refer to the SERVICING NOTES on page 2 before repair.

<Y,M,X type>



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### Servicing notes

- This unit does not contain a selector IC. However, as INPUT SELECTOR IC is incorporated into the graphic equalizer (GE-A5), signal system goes through the graphic equalizer. Since each speaker relay of this unit is operated according to the data that is serially transmitted from the graphic equalizer (GE-A5), the receiver cannot output sound alone. To output a tuner signal to each speaker terminal, follow the following procedures.

#### Procedure 1

Direct the tuner output to the main amplifier input. Connect the test pin on the right (lower right of the tuner board) of the main amplifier board (X09, A/6) (Fig. 1 or 2)

#### Front amplifier

K,P,T,E type  
(Fig. 1)

[ Pins 8 and 9 (Left channel)

[ Pins 6 and 4 (Right channel)

Y,M,X type  
(Fig. 2)

[ Pins 3 and 1 (Left channel)

[ Pins 4 and 17 (Right channel)

After turning power ON in this setting, front L & R channels are output.

Fig. 1 (K, P, T, E type)

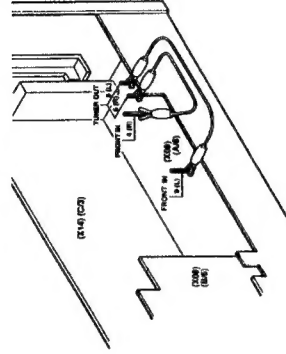
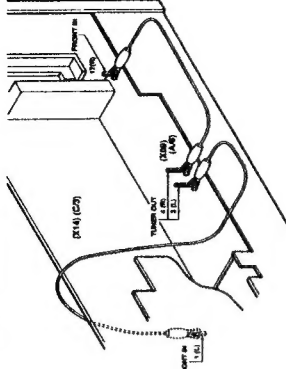


Fig. 2 (Y, M, X type)



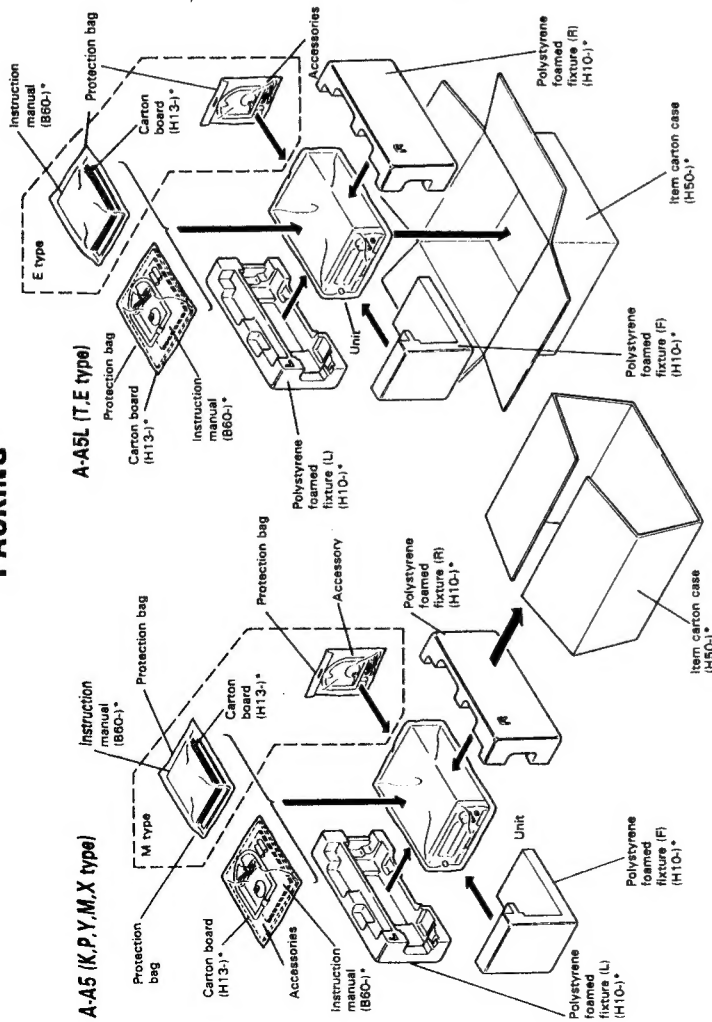
④ The A-A5 and A-A5L are made in different countries. However, their circuits are identical.

Model name	ABB.	Audio unit			Display unit		
		Japan made	Singapore made	France made	Japan made	Singapore made	France made
A-A5	K	X09-3680-11	X09-3720-10	—	X14-3620-12	X14-3640-11	—
	P	X09-3680-11	X09-3720-10	—	X14-3620-12	X14-3640-11	—
	Y	X09-3670-22	—	—	X14-3620-22	—	—
	M	X09-3670-22	X09-3710-22	—	X14-3620-22	X14-3640-22	—
A-A5L	X	X09-3670-22	X09-3710-72	—	X14-3620-72	X14-3640-72	—
	T	X09-3680-51	X09-3720-51	X09-3720-52	X14-3622-72	X14-3642-72	X14-3642-73
	E	X09-3682-71	X09-3722-71	X09-3722-72	X14-3622-72	X14-3642-72	X14-3642-73

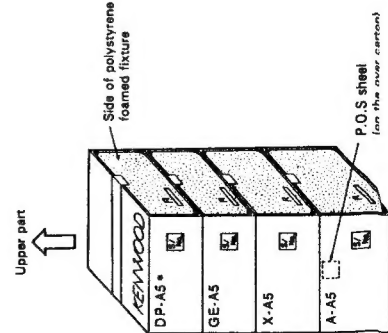
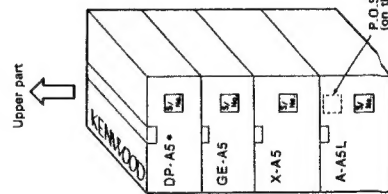
### Accessories

- AM loop antenna ..... 1  
(T90-0173-05): Japan made  
(T90-0174-05): Singapore made  
(T90-0153-05): France made
- FM indoor antenna ..... 1  
(T90-0176-05): Japan made  
(T90-0175-05): Singapore made
- Loop antenna stand ..... 1  
(J19-2818-04)
- AC plug adaptor ..... 1  
(Except for some areas)  
(E03-0115-05)
- Batteries (RC3/AAA) ..... 2  
(For U.K. and Europe)  
(T90-0185-05)
- Antenna adaptor  
(75 Ω/300 Ω) ..... 1  
(For U.K. and Europe)  
(T90-0185-05)
- Remote control unit ..... 1  
(X94-1000-01)  
Battery cover (A09-0115-13)
- Speaker cords (E30-1297-05)  
..... Red/Black x 2
- Remote control unit is packed with the graphic equalizer unit.
- Speaker cords are packed with the speakers. Remote control unit is packed with the graphic equalizer unit. All other accessories are packed with the receiver unit.

# PACKING

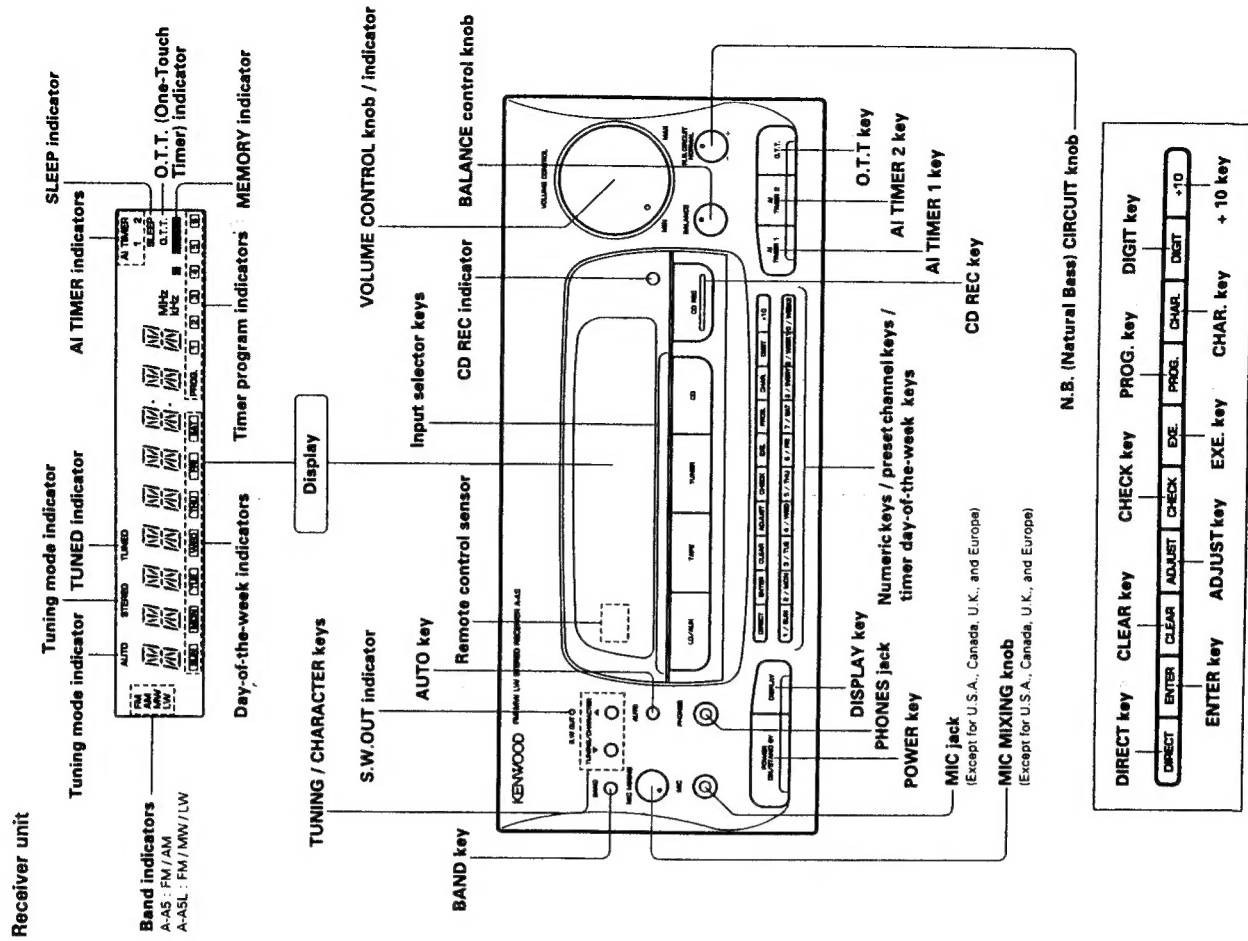


\* Refer to parts list on page 53.



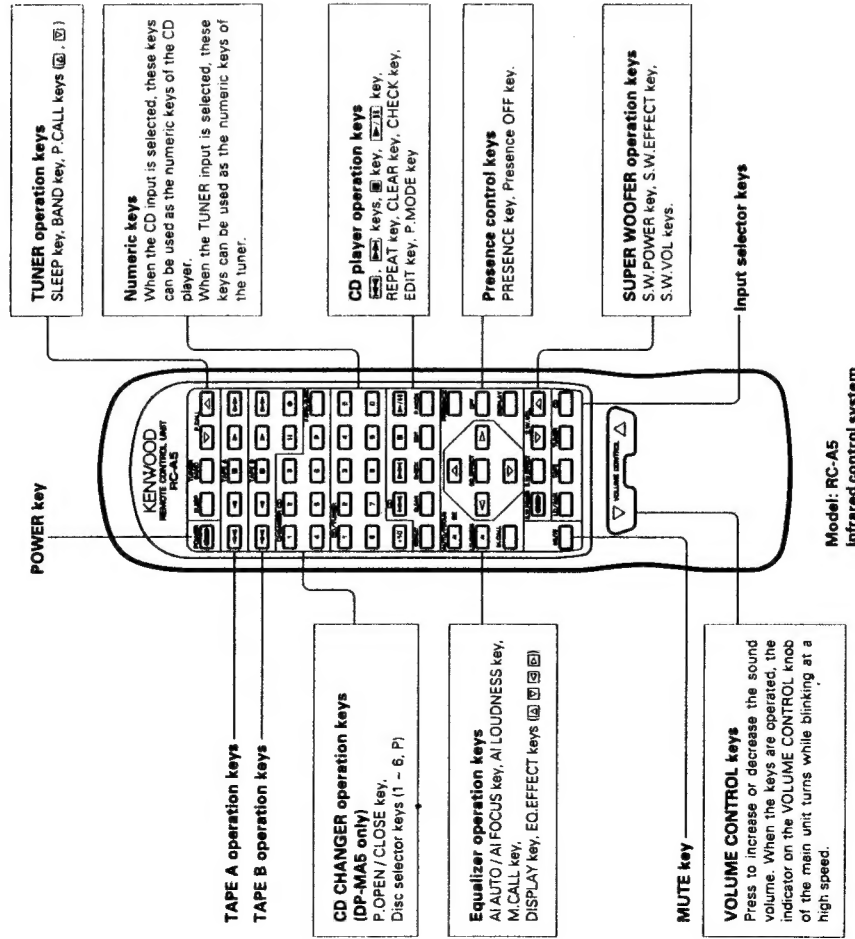
\*UD-500: DP-A5  
UD-500M: DP-MA5

# CONTROLS & INDICATORS



## CONTROLS & INDICATORS

Remote control unit

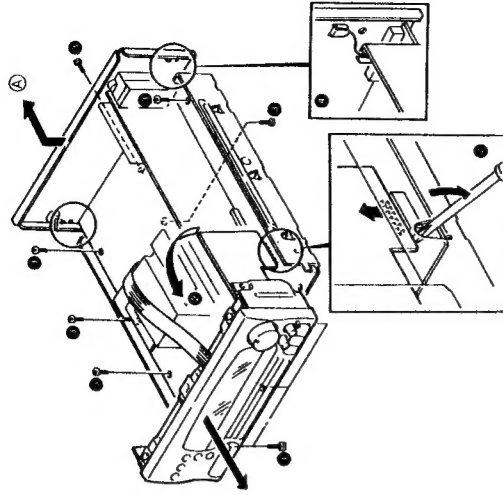


## DISASSEMBLY FOR REPAIR

<K,P,T,E type>

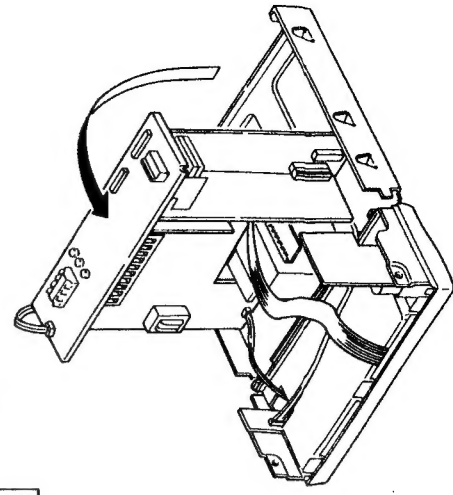
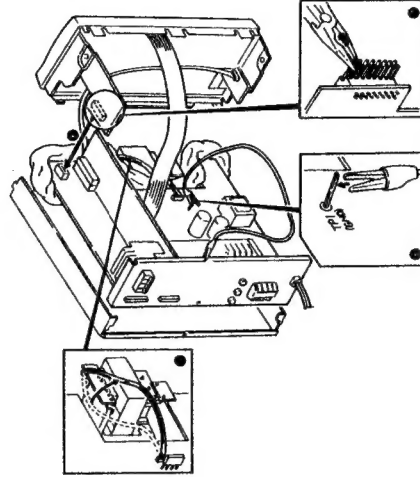
### 1) Removing the audio main unit (X09: A/6)

1. Remove the three screws (A), then remove the front panel while disconnecting the connector in the direction of arrow (B).
  2. Remove the six screws (C), then remove the audio main unit in the direction of arrow (D).
- Note: When installing the audio main unit, insert the screws as shown in the figure (E).



### 2) How to check the audio main unit (X09: A/6)

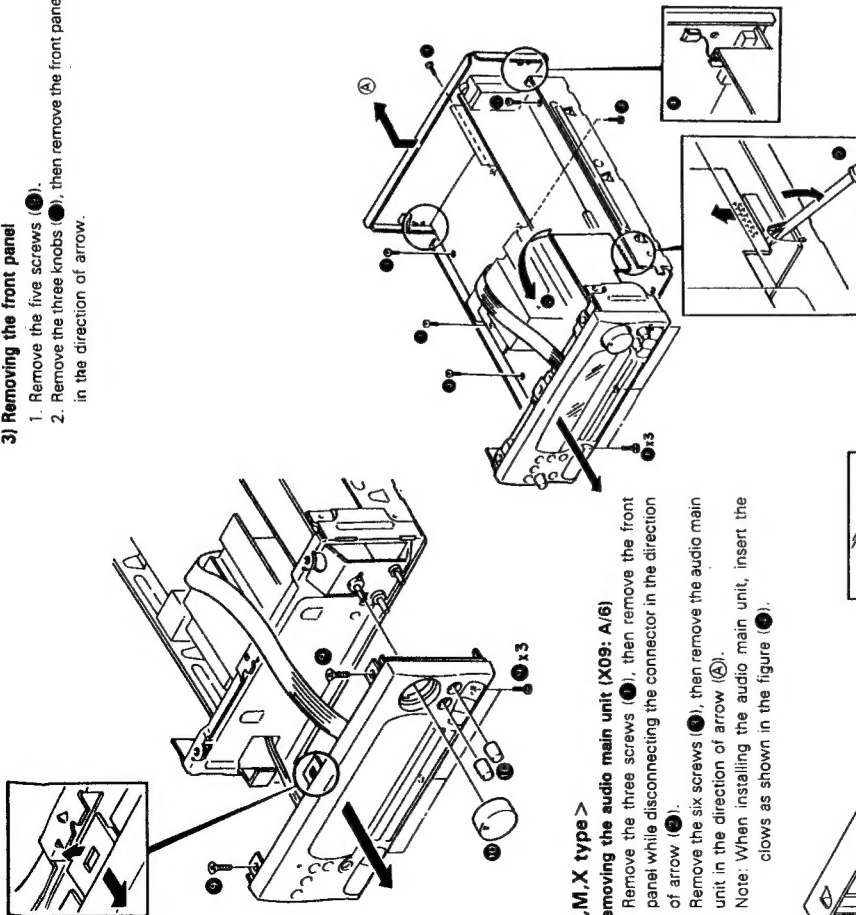
1. Stand the set with the right side upward, then move the audio main unit to parallel while moving the secondary parallel lead as shown in the figure (F).
  2. Insert the connector of volume unit (X09: B/6) to the connector of audio main unit (G).
- Note: When the pins of connector is bent, correct them as shown in the figure (H).
3. Lay a cloth between the audio main unit and transformer, and connect the board ground TPI to the rear panel (I).



4. In case check the main unit only, be able to check without connect the front panel side.  
Stand the audio main unit with the rear panel side upward as shown in the figure.

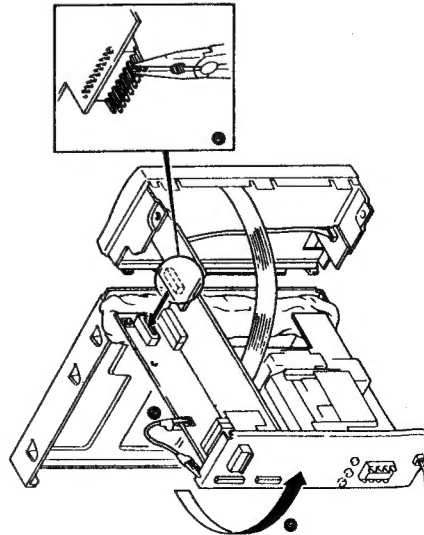
## DISASSEMBLY FOR REPAIR

- 3) Removing the front panel
1. Remove the five screws (●).
  2. Remove the three knobs (●), then remove the front panel in the direction of arrow.



## &lt;Y,M,X type&gt;

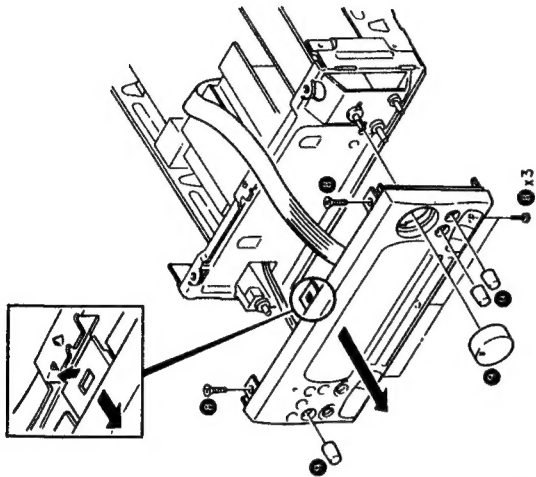
- 1) Removing the audio main unit (X09: A/6)
1. Remove the three screws (●), then remove the front panel while disconnecting the connector in the direction of arrow (A).
  2. Remove the six screws (●), then remove the audio main unit in the direction of arrow (A).
- Note: When installing the audio main unit, insert the claws as shown in the figure (●).



- 2) How to check the audio main unit (X09: A/6)
1. Stand the set with the right side upward, then move the audio main unit in the direction of arrow (●).
  2. Insert the connector of volume unit (X09: B/6) to the connector of audio main unit.
- Note: When the pins of connector is bent, correct them as shown in the figure (●).
3. Lay a cloth between the audio main unit and transformer, and connect the board ground as shown in the figure (●).

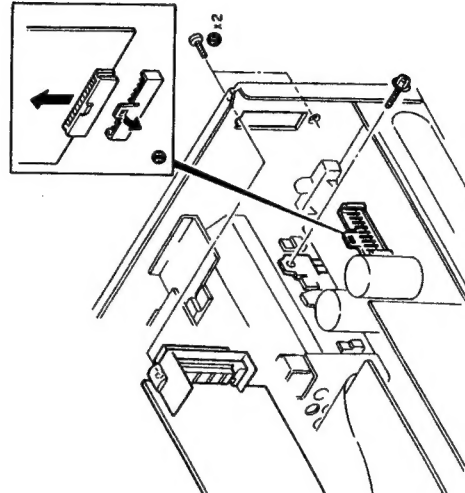
## DISASSEMBLY FOR REPAIR

- 3) Removing the front panel
1. Remove the five screws (●).
  2. Remove the four knobs (●), then remove the front panel in the direction of arrow.



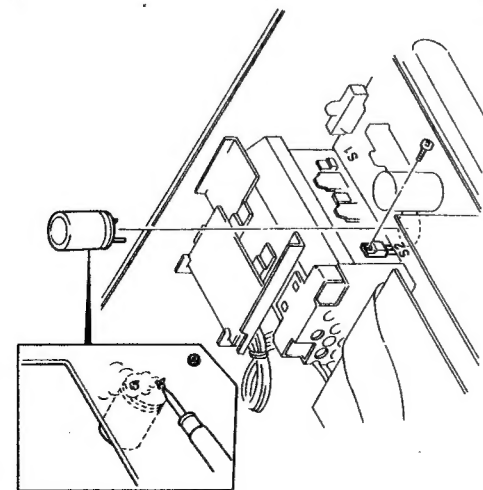
## 4) Removing the power transistor

1. Removing the two screws (●), then remove the tuner unit (X14: C/3).
2. Remove the X09: E/6 unit as shown in the figure (●).
3. Remove the screws, then remove the power transistor.

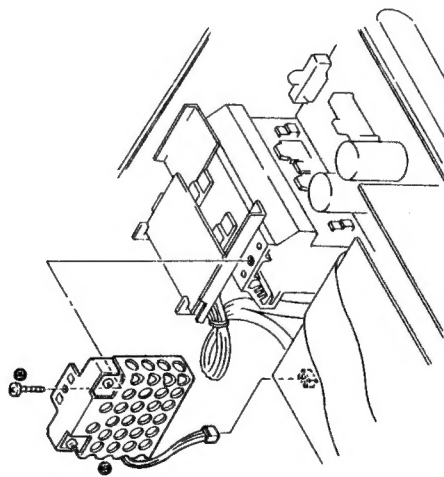


# A-A5/A5L

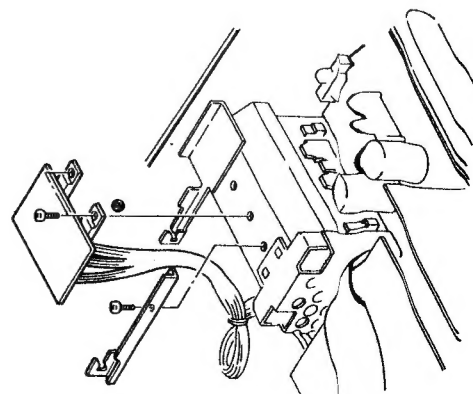
## DISASSEMBLY FOR REPAIR



- 5) Removing the temperature compensating switch (S2)**
1. Remove the tuner unit (X14: C/3) and X09: E/6 unit, then remove the capacitor (C90) (●).
  2. Remove the one screw, then remove the temperature compensating switch.



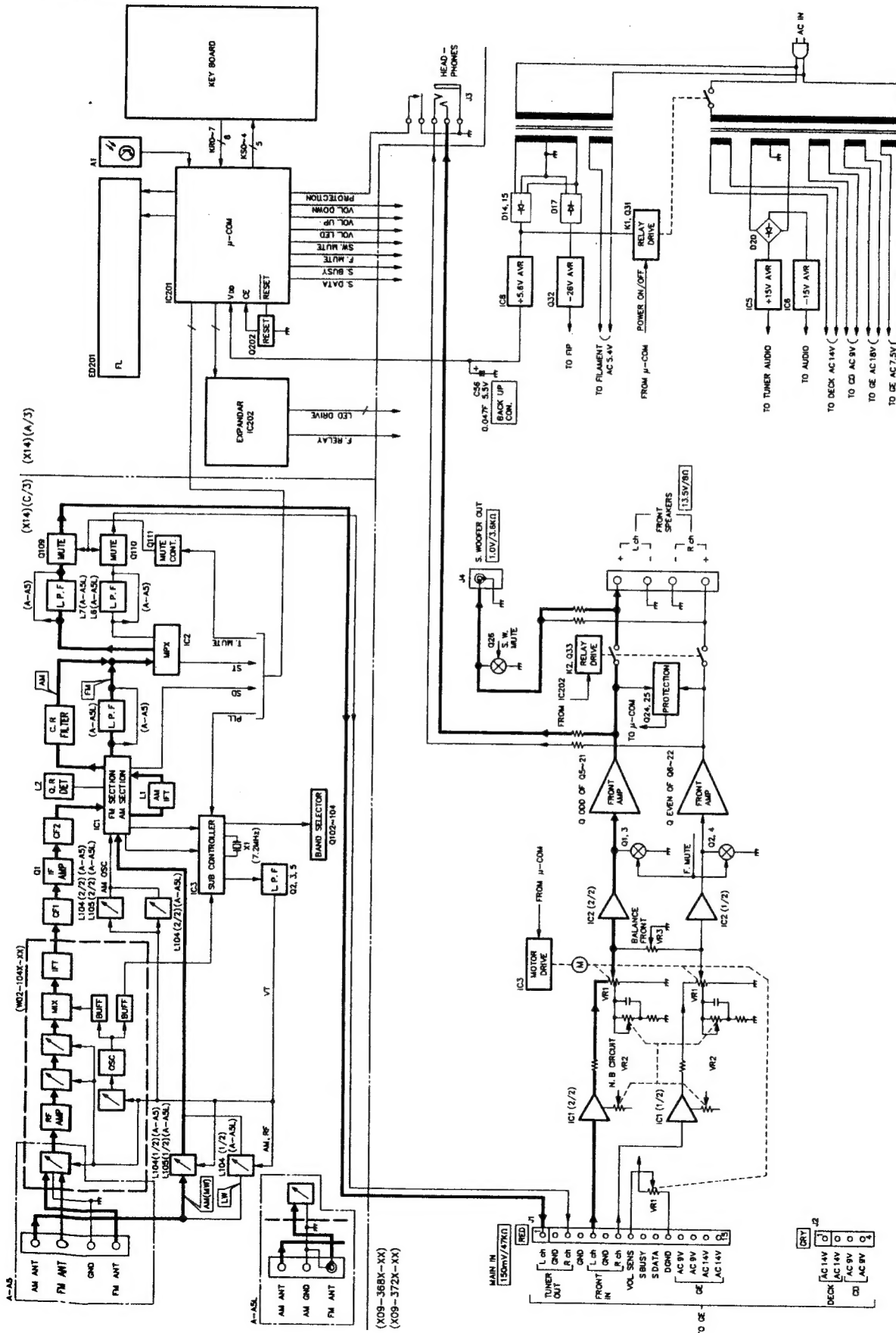
- 6) Removing the fan**
1. Remove the one screw (●).
  2. Remove the fan (●).



- 7) Removing the X09: C/6 unit**
1. Remove the three screws, then remove the X09: C/6 unit. (●).

## BLOCK DIAGRAM

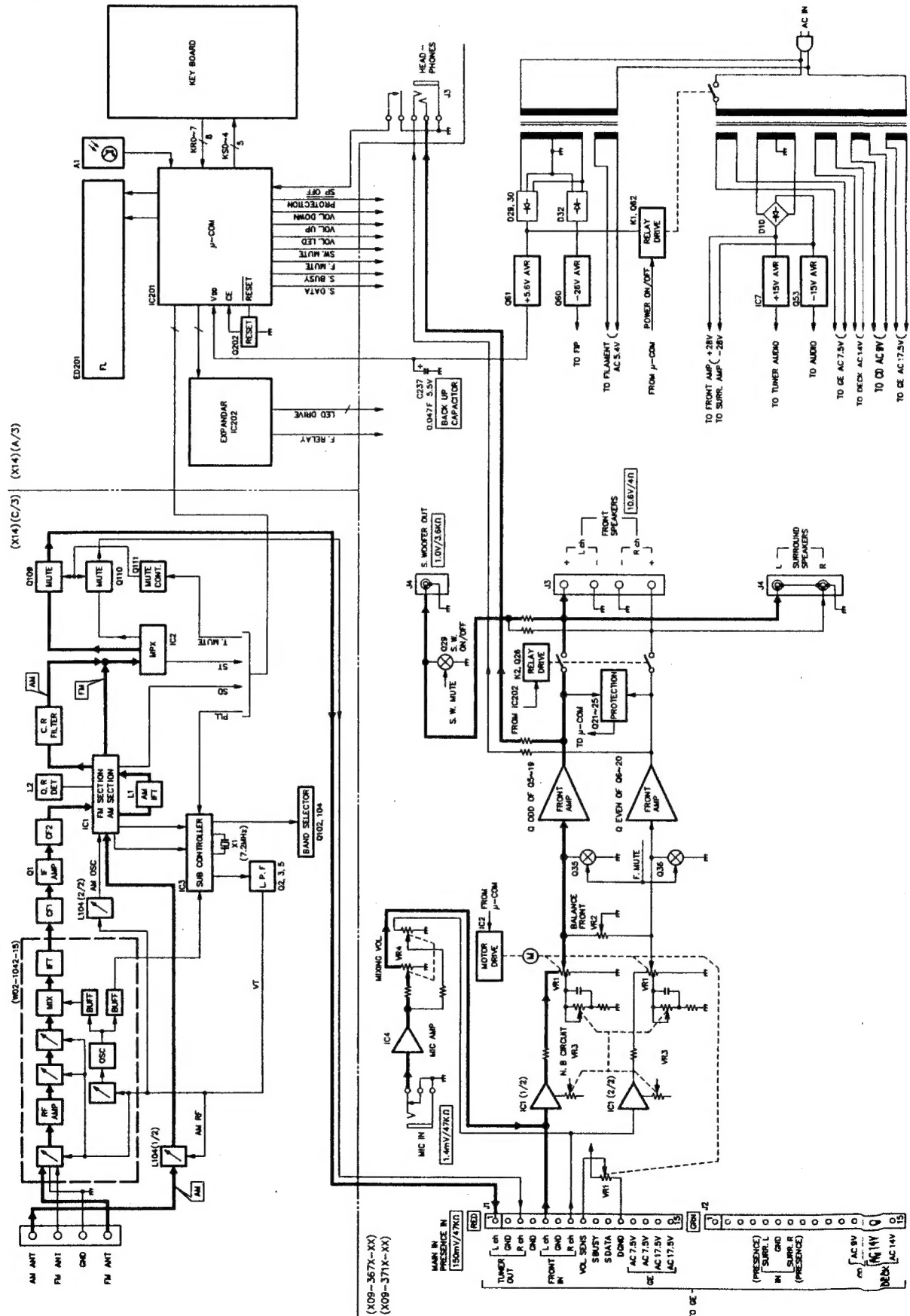
**<K,P,T,E type>**



# A-A5/A5L

## BLOCK DIAGRAM

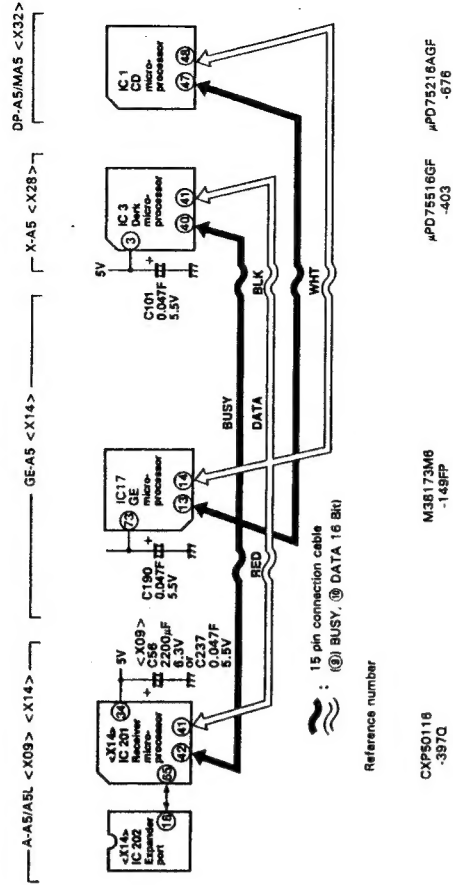
**<Y,M,X type>**





## CIRCUIT DESCRIPTION

1. Microprocessor and back-up condenser of this unit (16-bit serial transmission is supported like the UD-100/90/70, unlike the UD-7/9 series (8 bits).)



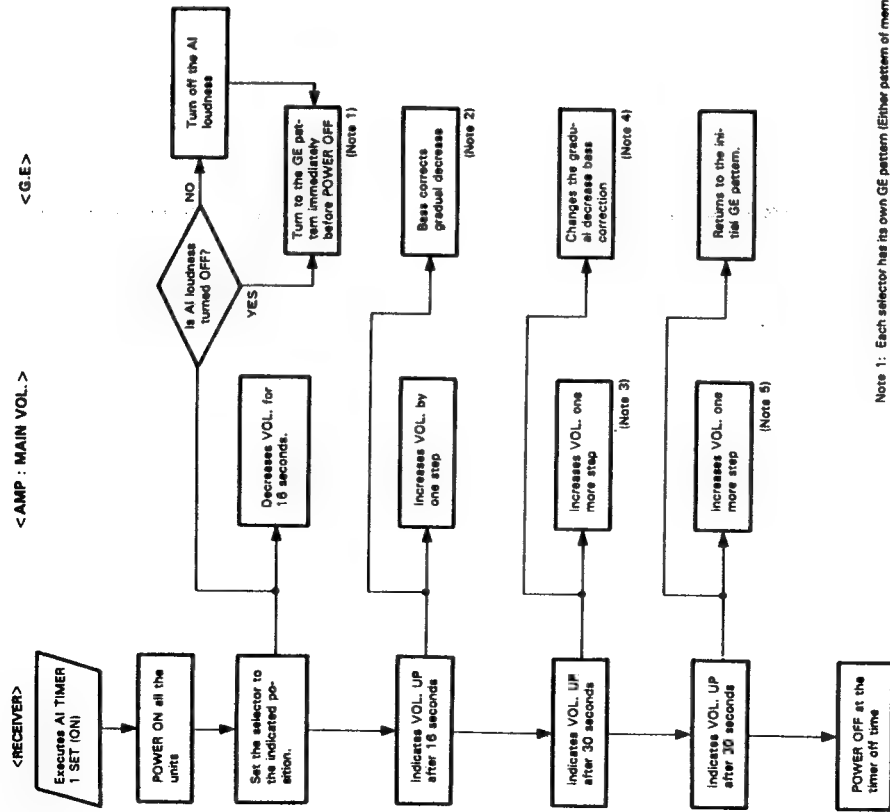
## 2. Microprocessor initialization (reset) and test mode

	A-A5/A5L	GE-A5	X-A5	DP-A5/MA5
	RECEIVER microprocessor (X14) IC201 CXPS0116-387Q	GE microprocessor (X14) IC17 M38173M6-149FP	DECK microprocessor (X28) IC3 μPD75516GF-403	CD microprocessor (X32) IC1 μPD75218AGF-676
Backup capacitor	(X09) C56 2200 μF 6.3 V (K.P.T.E type) C237 0.047 F 5.5 V (Y,M,X type)	(X14) C190 0.047 F 5.5 V	(X28) C101 0.047 F 5.5 V	None
Initialization (reset)	Hold down the ENTER key, and insert the AC plug into the outlet.	Hold down the MEMORY key, and turn AC on.	Turn AC off in the CRIS test mode (see below).	Turn AC off again.
Test mode	Operation	Hold down the CHARAC-TER key, and insert the AC plug into the outlet.	Short test pin ① and ⑦, and insert the AC plug into the outlet.	Short-circuiting the test pins CN2 (1 pin and 2 pin)
	Release	Remove the AC plug from the outlet.	Press the PAUSE key.	Release-AC off
	Contents	① All fluorescent displays light. For details, see the service manual for each model.	No fluorescent display.	



CIRCUIT DESCRIPTION

4-3. Flow chart of AI TIMER 1



Note 1: Each selector has its own GE pattern (Either pattern of memory and the pattern). Therefore, the GE pattern of the source indicated by the selector appears.

Note 2: Shifts to the pattern which has the loudness effect (There are two patterns of the gradual decrease bass correction of AI TIMER 1).

Note 3: The three steps of increase volume can be selected.

Note 4: Decrease correction volume is lowered in accordance with VR UP.

Note 5: Same as Note 3. However, the VR position is limited at the position of 12.

CIRCUIT DESCRIPTION

4-4. Function description

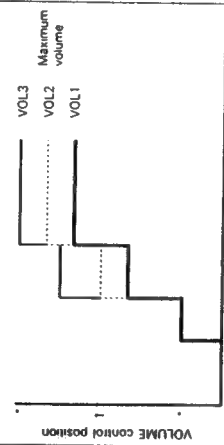
a) AI TIMER 1

- With the program timer mode set to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 1 is activated if the AI TIMER 1 is set to ON (the FL indicator is lit).
- When the AI TIMER 1 is turned ON, first playback starts with the minimum volume level, then the volume level is increased in three steps.
- The third-step volume level (the maximum volume level) can be selected among the three types of the volume levels (VOL. 1-3). Each time the AI TIMER 1 key is pressed, the maximum volume level is changed in order from VOL. 1 to VOL. 3 and TIMER OFF setting cyclically.

① When the key is pressed with the AI TIMER 1 is OFF (FL indicator is not lit):  
OFF → VOL. 1 → VOL. 2 → VOL. 3

② When the key is pressed in the volume setting mode (FL indicator is lit):  
Example: When VOL. 2 is selected  
VOL. 2 → VOL. 3 → OFF → VOL. 1

Reference for volume selection



- The VOLUME control rotates as the volume changes.
- The graphic equalizer curve also varies accordingly.

b) AI TIMER 2

- With the program timer mode set to PLAY, when the timer is turned ON, the setting contents for the AI TIMER 2 is activated if the AI TIMER 2 is set to ON (FL indicator is lit).
- When the AI TIMER 2 is turned ON, if the disc is loaded in the CD player, the two tracks on the disc is played regardless whether the other source is set for play.
- Then, the playback source is changed to tuner automatically.
- Each time the AI TIMER 2 key is pressed, the timer setting is changed alternately.

The program end is determined by the OFF time of the program which is activated at the last.

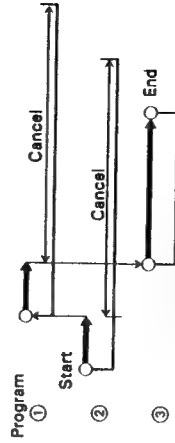
5. Timer program operation

<When the program settings are registered within the same period>

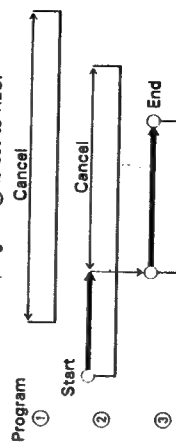
- When the two or more program settings are to be started at the same time:  
The program having the least number is activated and others will be cancelled.

- When the setting time for two or more programs differ:  
First, the program with the earliest setting time is activated. Then, if the same mode (REC mode or PLAY mode) has been designated for the other program, the operation is changed to the program in which the same mode as the first one is designated and the end time for the above program will be cancelled. If another mode is set for other programs, the contents will be cancelled.

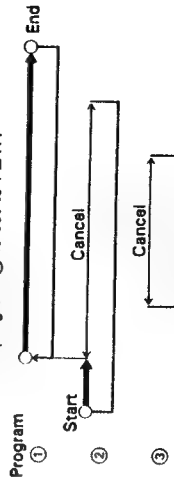
Example 1: When the operation modes for all three programs are set to PLAY:



Example 2: When the operation modes for programs ②, ③ are set to PLAY and that for the program ① is set to REC:



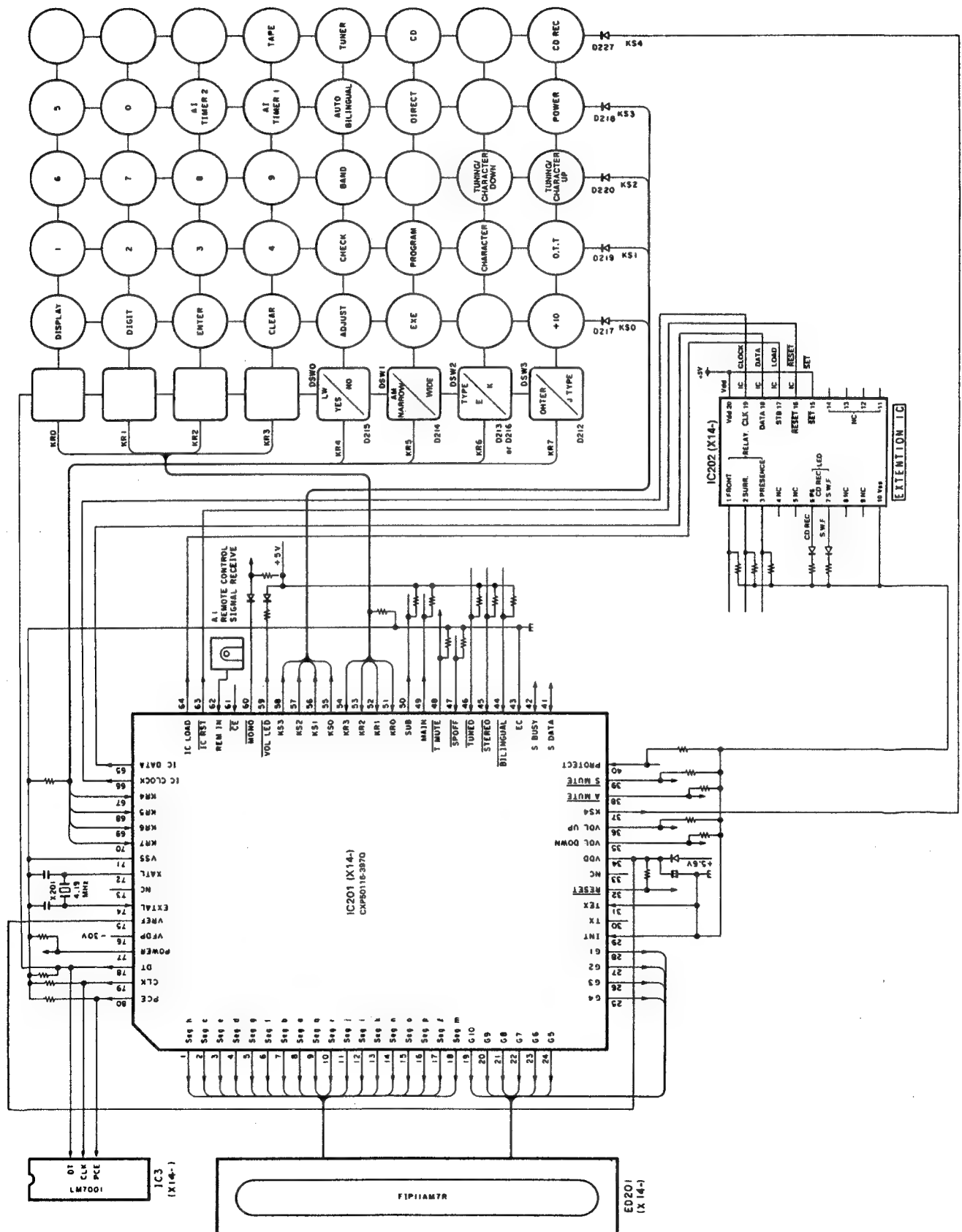
Example 3: When the operation mode for programs ①, ② are set to REC and that for program ③ is set to PLAY:



# A-A5/A5L

## CIRCUIT DESCRIPTION

### 6. Block diagram of surrounding microprocessor



## CIRCUIT DESCRIPTION

## 7. Function initial setting

## (1) Tuner section

POWER ..... OFF  
 BAND ..... FM  
 Last frequency ..... Lower most limit of each band  
 Last preset ..... "-." display  
 Preset memory ..... Test frequency of each memory  
 AUTOMONO ..... AUTO  
 BILINGUAL ..... BOTH MODE  
 Display mode ..... POWER ON ... Frequency display  
                                     POWER OFF ... Clock display

## (2) Clock, calendar, and timer section

Calendar ..... January 1, 1991  
 Clock ..... 0:00 ... Power failure mode  
 Programmable timer ..... Day of week : TUE  
                                     ON : 0:00  
                                     OFF : 0:00  
 MODE : PLAY  
 SOURCE : TUNER  
 SET ch : 01 ch  
 Execution mode : OFF

## (3) Amplifier section

Sleep timer ..... OFF  
 One touch timer ..... OFF  
 Selector ..... Audio system : TUNER  
                                     Video system : LD  
 CD REC ..... OFF  
 SUPER WOOFER ..... OFF

## Setting of initial conditions (reset)

## (1) Method

While pressing ENTER key, turn the AC ON.

## (2) Contents

Clears all the memory and returns to the initial conditions. However, the test frequency is newly memorized in the preset memory at this time. (The same as when the back-up data is NG.

## 8. Test mode

## (1) Setting method

While pressing CHARACTER key, turn the AC on.

## (2) Clearing method

AC off.

## (3) Contents

- All fluorescent lamps and LEDs light.
- S 4-channel mode (the front, center, and rear speakers output sound).
- Receive the minimum FM value.

The test is performed with the following keys.

## 1) Preset channel calling

Normally, the +10 key changes the high-order digits 1-, 2-, and 0- alternately, but it changes the high-order digits 1- and 0- alternately in the test mode. The 0 key does not call any channel, but in the test mode, if the high-order digit is 0, 10 ch is called, and if it is 1, 20 ch is called.

Table 1 lists the channels to be called.

Table 1

Low order	TEN KEY									
	1	2	3	4	5	6	7	8	9	0
High order	0	1	2	3	4	5	6	7	8	9
1	11	12	13	14	15	16	17	18	19	20

## 2) Motor volume test

If the DIGIT key is pressed, the volume keeps increasing for 16 seconds, and then keeps decreasing for 16 seconds. To stop the test in the middle, switch the power off.

## 3) O.T.T key test (one-touch-timer)

Normally, the O.T.T key is not accepted if the clock is not functioning. Only in the test mode, it is indicated that the key is accepted, but it does not cause any operation. When the key is pressed the first time, ON 0:30 O.T.T appears on the fluorescent display, and after five seconds, only O.T.T is displayed. When the key is pressed the second time, O.T.T disappears, and the original state before the key is pressed returns.

## 9. Conditions by destination

Destination Type	Destination switches (DSW)				Band	Receiving frequency range	Inter-channel space	Intermediate frequency	PLL reference frequency
	DSW3	DSW2	DSW1	DSW0					
Y.M	1	1 or 0	1	0	FM	87.5 ~ 108.0 MHz	50 kHz /100 kHz	+10.7 MHz	50 kHz (25 kHz)
					AM	531 ~ 1602 kHz /530 ~ 1610 kHz	9 kHz /10 kHz	+450 kHz	10 kHz
K.P	1	0	0	0	FM	87.5 ~ 108.0 MHz	100 kHz	+10.7 MHz	50 kHz (25 kHz)
					AM	530 ~ 1610 kHz	10 kHz	+450 kHz	10 kHz
X	1	1	1	0	FM	87.5 ~ 108.0 MHz	50 kHz	+10.7 MHz	50 kHz (25 kHz)
					AM	531 ~ 1602 kHz	9 kHz	+450 kHz	9 kHz
T.E	1	1	1	1	FM	87.5 ~ 108.0 MHz	50 kHz	+10.7 MHz	50 kHz (25 kHz)
					MW	531 ~ 1602 kHz	9 kHz	+450 kHz	9 kHz
A-A5L					LW	153 ~ 281 kHz	1 kHz	+450 kHz	1 kHz

1: With diode, 0: Without diode

## CIRCUIT DESCRIPTION

## CIRCUIT DESCRIPTION

10. Test frequency

Microprocessor: CPX50116-397Q (X14: IC201)

CH	TYPE	A-A5		A-A5L	
		K, P	Y, M (AM 10 kHz, FM 100 kHz step)	Y, M, X (AM 9 kHz, FM 50 kHz step)	T, E
1	FM	98.0 MHz	FM 98.0 MHz	FM 98.0 MHz	FM 98.0 MHz
2	FM	108.0 MHz	FM 108.0 MHz	FM 108.0 MHz	FM 108.0 MHz
3	AM	630 KHz	AM 630 KHz	AM 630 KHz	AM 630 KHz
4	AM	990 KHz	AM 990 KHz	AM 990 KHz	AM 990 KHz
5	AM	1440 KHz	AM 1440 KHz	AM 1440 KHz	AM 1440 KHz
6	AM	1610 KHz	AM 1610 KHz	AM 1602 KHz	AM 1602 KHz
7	AM	1700 KHz	FM 87.5 MHz	FM 87.5 MHz	LW 162 KHz
8	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW 216 KHz
9	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW 270 KHz
10	FM	89.1 MHz	FM 89.1 MHz	FM 89.1 MHz	FM 89.1 MHz
11	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW 280 KHz
12	FM	90.0 MHz	FM 90.0 MHz	FM 90.0 MHz	FM 90.0 MHz
13	FM	106.0 MHz	FM 106.0 MHz	FM 106.0 MHz	FM 106.0 MHz
14	AM	530 KHz	AM 530 KHz	AM 531 KHz	AM 531 KHz
15	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	LW 153 KHz
16~20	FM	87.5 MHz	FM 87.5 MHz	FM 87.5 MHz	FM 87.5 MHz

11. Expansion port IC: CX-7991 (X14: IC202)

Pin functions

Pin No.	Pin name	I/O	Name	Description
1	P1	O	FRONT RLY	Front speaker relay
2	P2	O	SURR. RLY	S4ch speaker relay
3	P3	O	PRESE RLY	F4ch speaker relay
4	P4	O		No used (Open)
5	P5	O	VFIX	No used
6	P6	O	CDREC	CD REC LED
7	P7	O	SWF	SUPER WOOFER LED
8	P8	O	ALC	No used
9	P9	O		No used (Open)
10	VSS			GND
11	P10	O		No used (Open)
12	P11	O		No used (Open)
13	P12	O		No used (Open)
14	SO	O		No used (Open)
15	SET	I		+ 5 V power supply
16	RESET	I		Reset signal input
17	STB	I	ICLOAD	Strobe input
18	DATA	I	ICDATA	Data input
19	CLK	I	ICCLOCK	Clock input
20	VDD			+ 5 V power supply

Pin functions

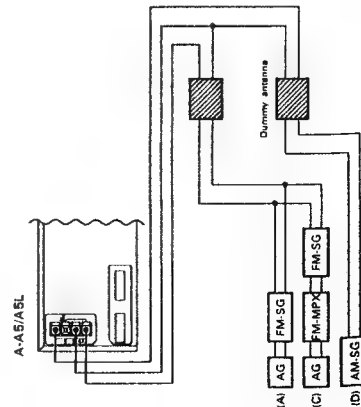
Pin No.	Pin name	I/O	Name	Description
1 ~ 18	SA - S21/PQ0 - PQ3 PQ0 - PQ3, P.0 - P.3 115 - 110	O	Segment	Segment (h, c, e, d, g, f, b, a, q, r, j, i, k, n, o, p, l, m)
19 ~ 28	S22 - S29/TS 78, 17 - 10	O	G10 ~ G1	Grid 10 ~ 1
29 ~ 31	INT, TX, TEX	I	INT, TX, TEX	No used.
32	RST	I	RESET	Reset pin
33	NC		NC	No used.
34	Vdd		Vdd	+5 V power supply
35	PI0	O	VOLD	Motor volume down
36	PI1	O	VOLU	Motor volume up
37	PI2	O	KS4	Key scan signal output (KS4)
38	PI3	O	AMUTE	Amplifier mute
39	PB0	O	SMUTE	Super woofer mute
40	PB1	I	PROTECT	Protection detection
41	PB2	I/O	SDATA	Serial communication DATA
42	PB3	I/O	SBUSY	Serial communication BUSY
43	EC		EC	No used.
44	PX0	I	BILINGUAL	No used.
45	PX1	I	STEREO	Stereo signal detection
46	PX2	I	TUNED	SD signal detection
47	PA0	I	SPOFF	Head phone use detection
48	PA1	O	TMUTE	Tuner mute
49	PA2	O	MAIN	No used
50	PA3	O	SUB	No used
51 ~ 54	PF0 ~ PF3	I	KR0 ~ KR3	Key return signal input (KR0 ~ KR3)
55 ~ 58	PE0 ~ PE3	O	KS0 ~ KS3	Key scan signal output (KS0 ~ KS3)
59	PY0	O	VOLLED	Volume LED drive
60	PY1	O	MONO	Forced monaural output
61	PY2	I	CE	Chip enable signal input
62	PY3	I	REMIN	Remote control signal input
63	PD0	O	ICRST	Expansion port IC RESET
64	PD1	O	ICLOAD	Expansion port IC STROBE
65	PD2	O	ICDATA	Expansion port IC DATA
66	PD3	O	ICCLOCK	Expansion port IC CLOCK
67 ~ 70	PC0 ~ PC3	I	KR4 ~ KR7	Key return signal input (KR4 ~ KR7)
71	Vss		Vss	GND
72	XTAL		XTAL	Crystal oscillator input (4.19 MHz)
73	NC		NC	No used
74	EXTAL		EXTAL	Crystal oscillator input (4.19 MHz)
75	Vref		Vref	No used
76	Vlpp		Vlpp	-30 V power supply
77	S0PH0	O	POWER	Power ON/OFF signal output
78	S1PH1	O	DT	PLL IC (LM7001) DATA
79	S2PH2	O	CLK	PLL IC (LM7001) CLOCK
80	S3PH3	O	PCE	PLL IC (LM7001) STROBE

ADJUSTMENT

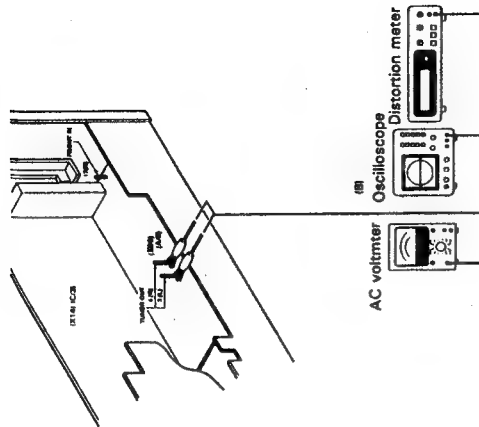
ADJUSTMENT

1. TUNER UNIT

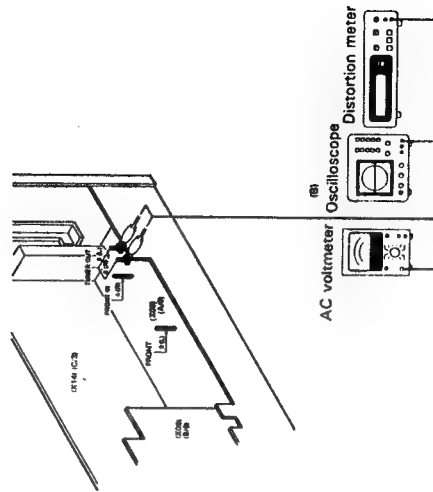
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN F/W	FIG.
FM SECTION							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz.275kHz dev (K.P.M.Y.X type) 1kHz.240kHz dev (E.T type) 60dBu (ANT input)	Connect a DC voltmeter between TP3 and TP4. (X14-)	AUTO or MONO 98.0MHz	L2 (X14-)	0V	(a)
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz.258.25kHz dev Pilot:17.5kHz dev (K.P.M.Y.X type) 1kHz.240kHz dev Pilot:16kHz dev (E.T type) 80dBu (ANT input)	(B)	MONO 98.0MHz	IFT (W02-)	Minimum distortion	
3	SEPARATION	(C) 98.0MHz 1kHz.240kHz dev Pilot:16kHz dev Selector:L or R 80dBu (ANT input)	(B)	AUTO 98.0MHz	VR5 (X14-)	Minimum crosstalk	
4	TUNING LEVEL	(A) 98.0MHz 1kHz.275kHz dev (K.P.M.Y.X type) 1kHz.245kHz dev (E.T type) 140dBu(ANT input) 750 180dBu(ANT input)3000	(B)	AUTO or MONO 98.0MHz	VR1 (X14-)	Adjust VR1 and stop at the point where ED201(TUNED) goes on.	
AM (MW) SECTION							
(1)	TUNING LEVEL	(D) 1008kHz 400Hz.30% mod 25dBu(ANT input)	(B)	1008kHz	VR3 (X14-)	Adjust VR3 and stop at the point where ED201 (TUNED) goes on.	



(K,P,T,E type)



(Y,M,X type)







## WIRING DIAGRAM

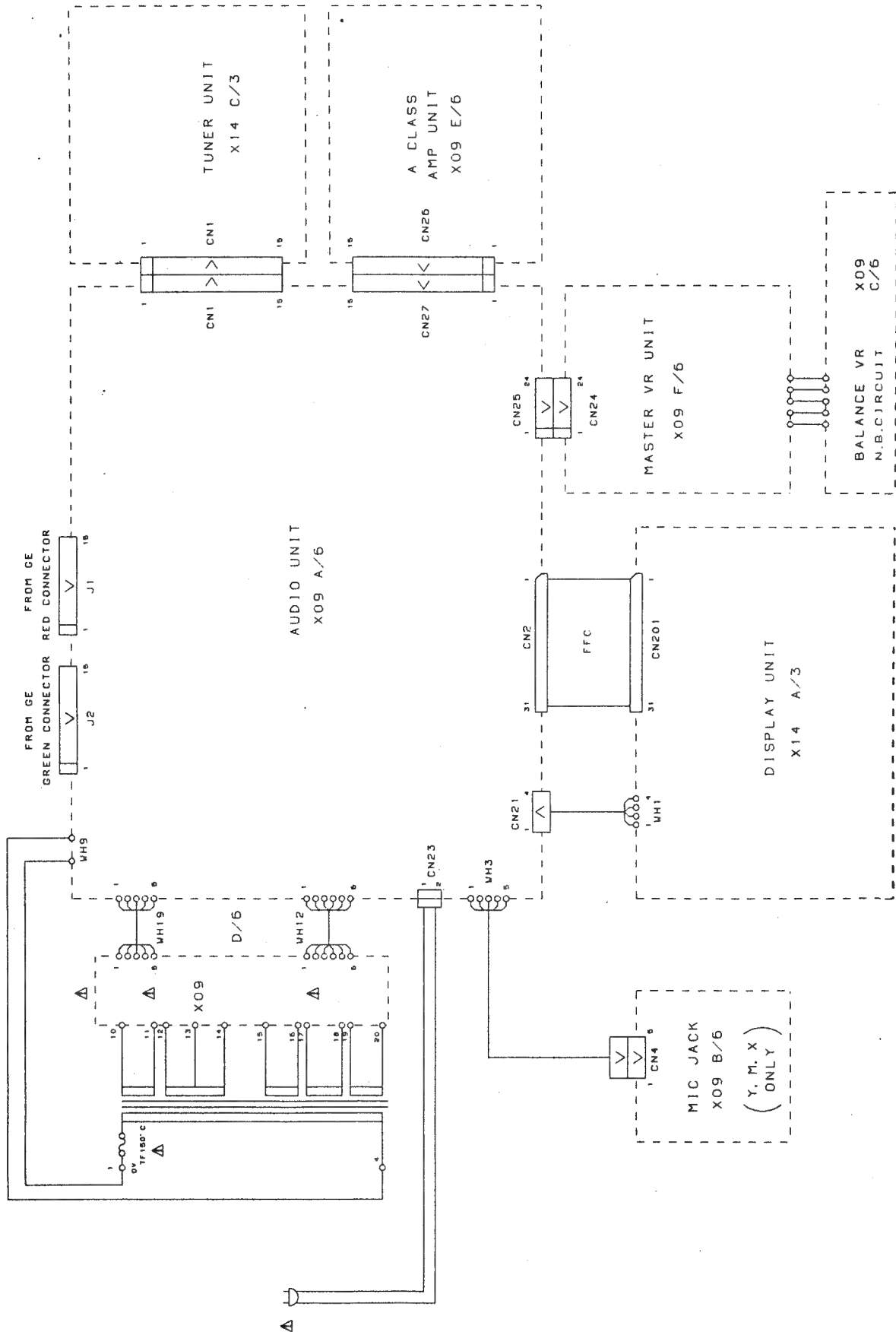
The diagram illustrates the internal wiring and external connections of the X09 F/6 unit. Key components and connections include:

- External Connections:**
  - FROM GE RED CONNECTOR J1:** Connected to pin 15 of the X09 F/6 unit.
  - FROM GE GRAY CONNECTOR J2:** Connected to pin 4 of the X09 F/6 unit.
- Internal Components:**
  - 9V 1F180° E:** A transformer component connected to pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16.
  - VH1:** A variable component connected to pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16.
  - VH3:** A variable component connected to pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16.
  - VH5:** A variable component connected to pins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, and 16.
- Unit Identification:**
  - X09 F/6:** The central unit being diagrammed.
  - AUDIO UNIT X09 A/5:** Connected to the X09 F/6 unit via a dashed line.
  - TUNER UNIT X14 C/3:** Connected to the X09 F/6 unit via a dashed line.
  - MASTER VR UNIT X09 B/6:** Connected to the X09 F/6 unit via a dashed line.
  - DISPLAY UNIT X14 A/3:** Connected to the X09 F/6 unit via a dashed line.
  - BALANCE VR X09 C/5:** Connected to the X09 F/6 unit via a dashed line.

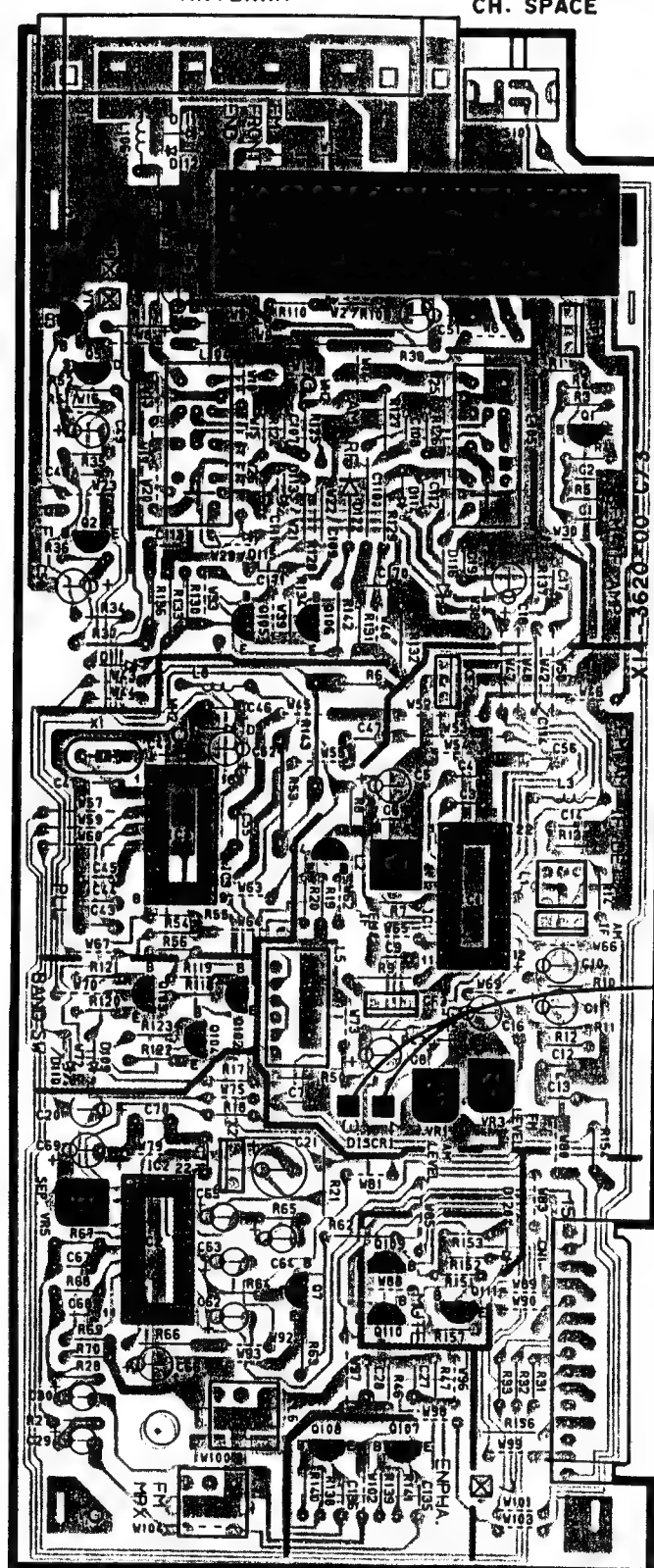
# A-A5/A5L

## WIRING DIAGRAM

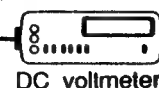
<Y,M,X type>



DE-EMPHASIS  
CH. SPACE



(a) Discriminator : OV

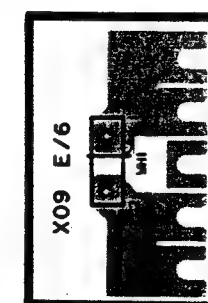
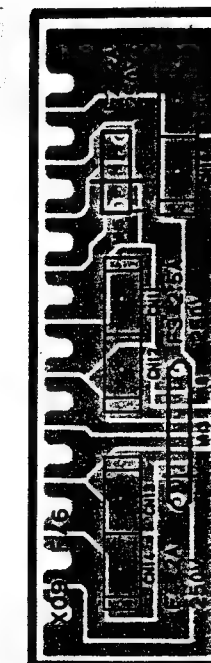
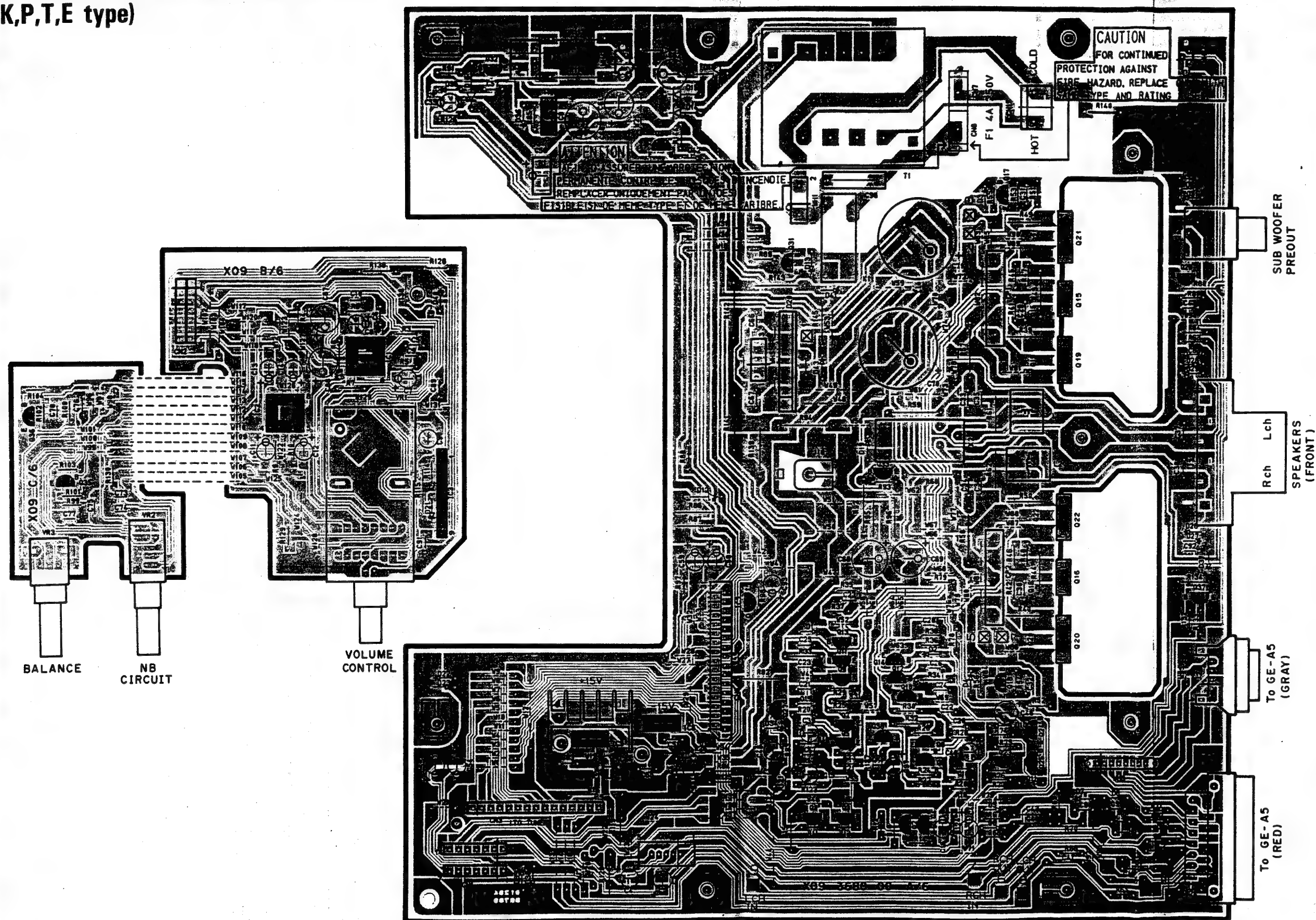


Refer to the schematic diagram for the values of registers and capacitors.





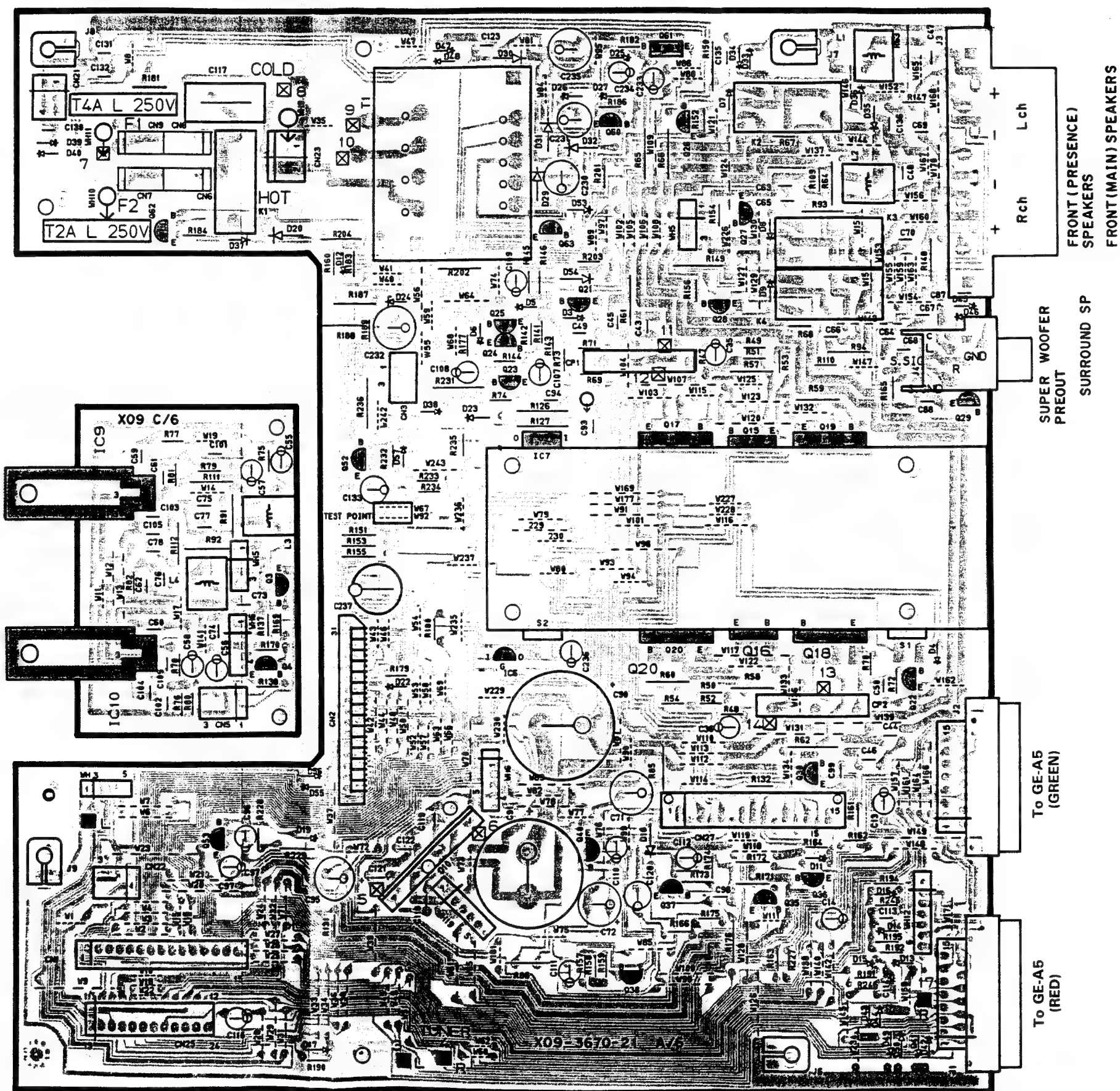
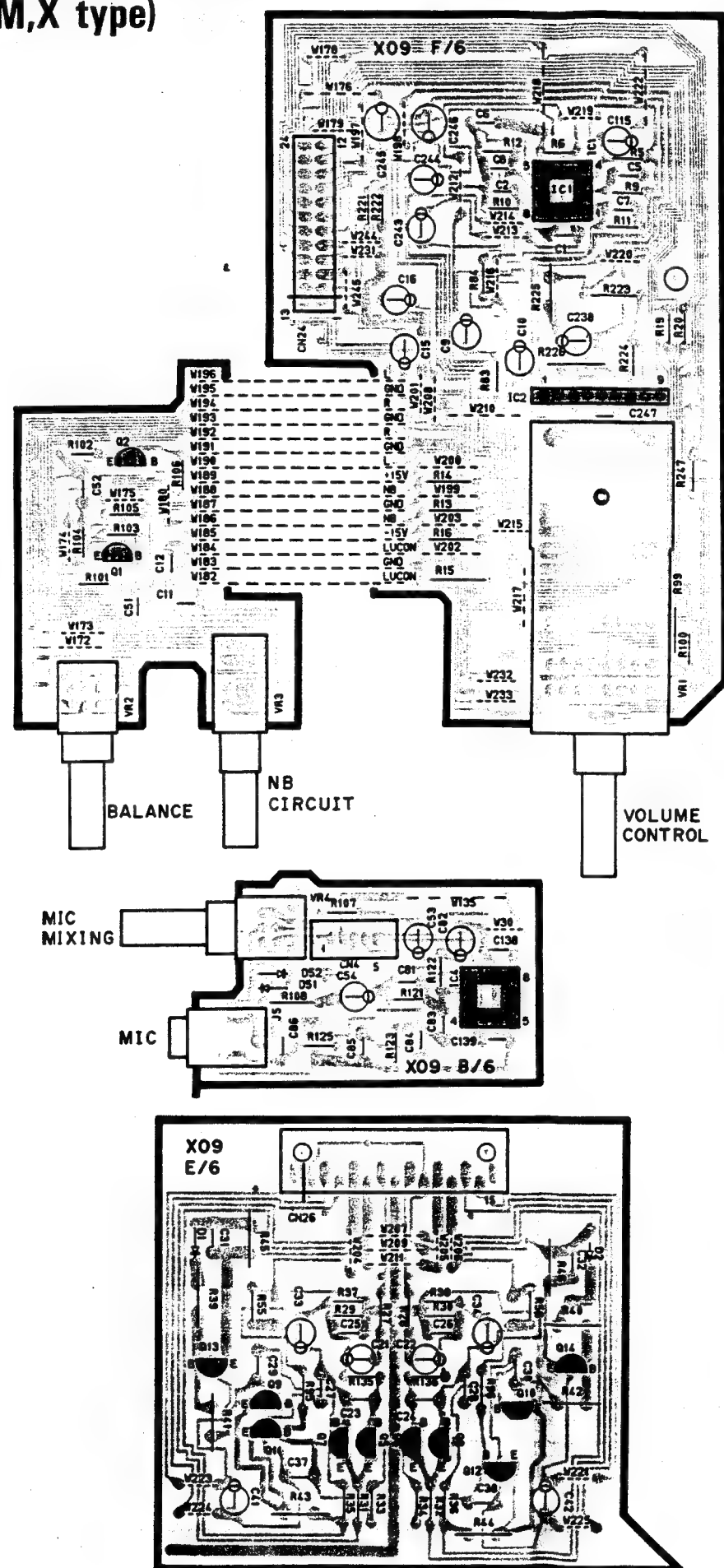
PC BOARD (Component side view)  
(K,P,T,E type)



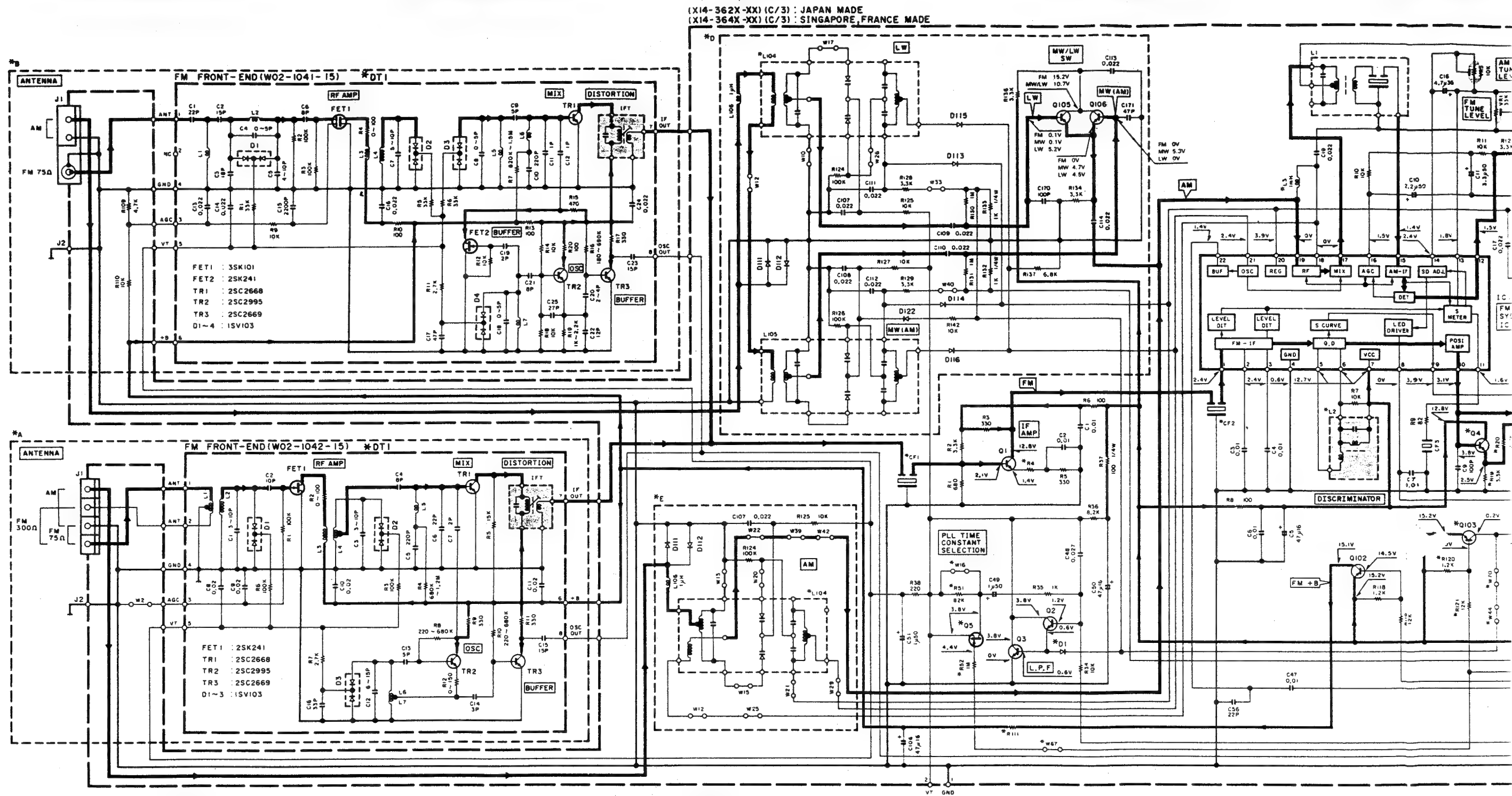
Refer to the schematic diagram for the values of registers and capacitors.



**PC BOARD (Component side view)**  
(Y,M,X type)

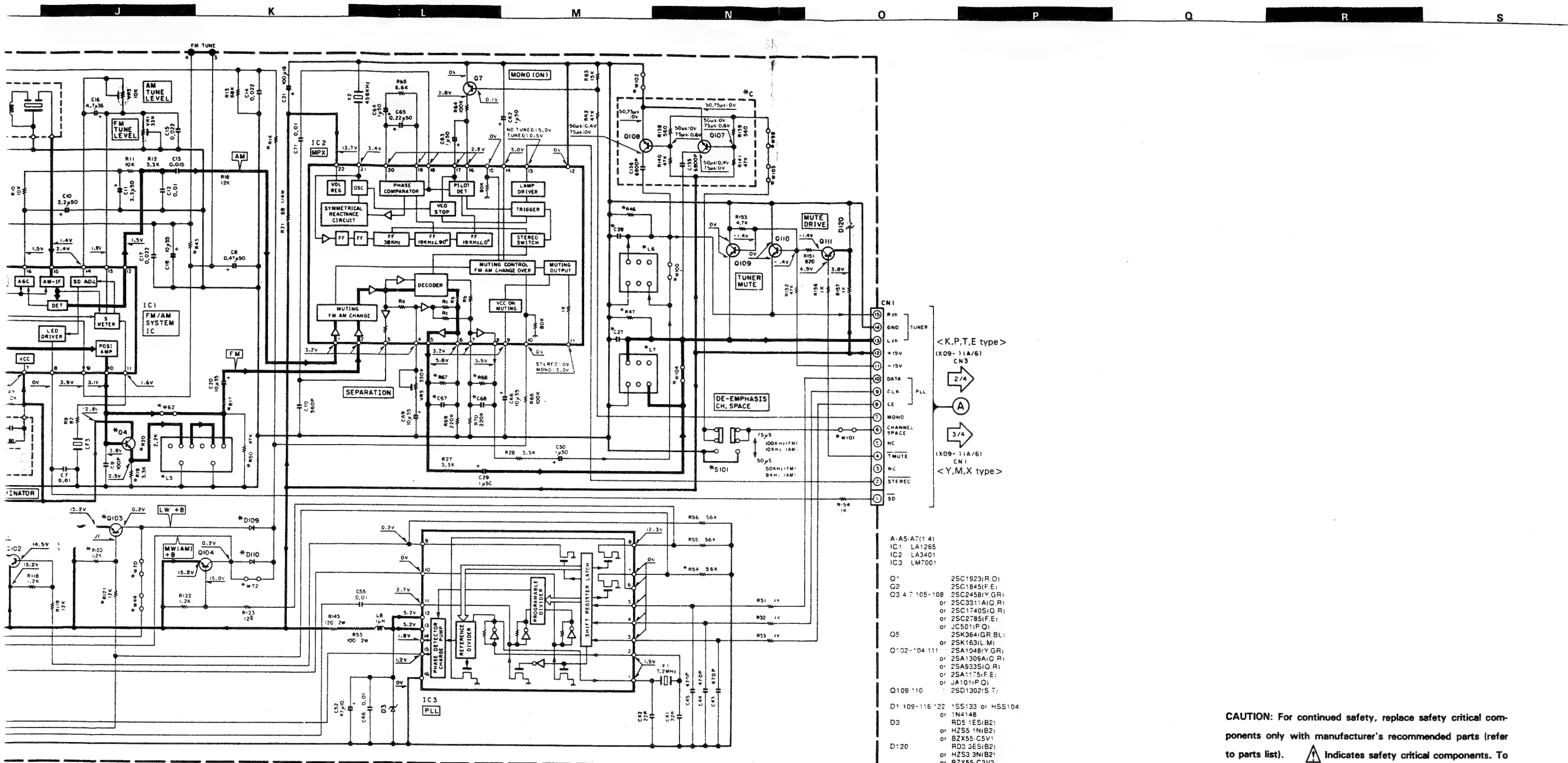


Refer to the schematic diagram for the values of registers and capacitors.



A-AS/ASL		MODEL NAME		DESTINATION		UNIT NAME		A	B	C	D	E	R4	R14	R17	R19,20 50-52,54 120-121	R43	R46 47	R47 48	R411	C27 28	C67 68	Q4,5 103	D1,109 110	CF12 (L72)	OT1 (M02)	S101	L2 (L38)	L3,5-7	L104 (L38)	W16,22,62 72,100,104	W44 67,70	W98 101-103
PRODUCT-P		MODEL NAME		DESTINATION		UNIT NAME		A	B	C	D	E	R4	R14	R17	R19,20 50-52,54 120-121	R43	R46 47	R47 48	R411	C27 28	C67 68	Q4,5 103	D1,109 110	CF12 (L72)	OT1 (M02)	S101	L2 (L38)	L3,5-7	L104 (L38)	W16,22,62 72,100,104	W44 67,70	W98 101-103
		COUNTRY	ASB	UNIT NAME		A	B	C	D	E	R4	R14	R17	R19,20 50-52,54 120-121	R43	R46 47	R47 48	R411	C27 28	C67 68	Q4,5 103	D1,109 110	CF12 (L72)	OT1 (M02)	S101	L2 (L38)	L3,5-7	L104 (L38)	W16,22,62 72,100,104	W44 67,70	W98 101-103		
JAPAN MADE	A-AS	U.S.A CANADA	K P	X14-3620-12	YES	NO	NO	NO	YES	56	4.7K	15K	NO	12K	39K	100K	330	0.022	100P	NO	NO	NO	0531	1042	NO	0439	NO	0189	YES	NO	NO		
		PI GENERAL MARKET	Y M	X14-3620-22	YES	NO	YES	NO	YES	56	4.7K	15K	NO	27K	39K	100K	330	0.015	100P	NO	NO	NO	0531	1042	YES	0494	NO	0189	YES	NO	YES		
		AUSTRALIA	X	X14-3620-72	YES	NO	NO	NO	YES	56	4.7K	15K	NO	27K	39K	100K	330	0.015	100P	NO	NO	NO	0531	1042	NO	0494	NO	0189	YES	NO	NO		
	A-ASL	EUROPE ENGLAND	T E	X14-3622-72	NO	YES	NO	YES	NO	22	2.7K	12K	YES	27K	3.3K	180K	220	3900P	270P	YES	YES	0536	1041	NO	0494	YES	0195	NO	YES	NO			
SINGAPORE MADE	A-AS	U.S.A CANADA	K P	X14-3640-11	YES	NO	NO	NO	YES	56	4.7K	15K	NO	12K	39K	100K	330	0.022	100P	NO	NO	NO	0531	1042	NO	0439	NO	0189	YES	NO	NO		
		GENERAL MARKET	M	X14-3640-22	YES	NO	YES	YES	YES	56	4.7K	15K	NO	27K	39K	100K	330	0.015	100P	NO	NO	NO	0531	1042	YES	0494	NO	0189	YES	NO	YES		
		AUSTRALIA	X	X14-3640-72	YES	NO	NO	NO	YES	56	4.7K	15K	NO	27K	39K	100K	330	0.015	100P	NO	NO	NO	0531	1042	NO	0494	NO	0189	YES	NO	NO		
	A-ASL	EUROPE ENGLAND	T E	X14-3642-72	NO	YES	NO	YES	NO	22	2.7K	12K	YES	27K	3.3K	180K	220	3900P	270P	YES	YES	0536	1041	NO	0494	YES	0195	NO	YES	NO			
FRANCE MADE	A-ASL	EUROPE ENGLAND	T E	X14-3642-73	NO	YES	NO	YES	NO	22	2.7K	12K	YES	27K	3.3K	180K	220	3900P	270P	YES	YES	0536	1041	NO	0494	YES	0195	NO	YES	NO			



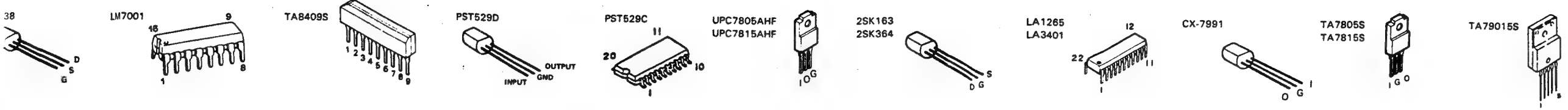


- A-A5/A5L(1/4)  
 IC1 LA1265  
 IC2 LA3401  
 IC3 LM7001
- Q1 2SC1923(R.O.)  
 Q2 2SC1845(F.E.)  
 Q3 4 7 105-108  
 or 2SC331(AI.Q.R.)  
 or 2SC1740(SI.Q.R.)  
 or 2SC2785(F.E.)  
 or JCS01(P.O.)  
 Q5 2SK364(GR.B.L.)  
 or 2SK163(L.M.)  
 Q102-104 111  
 or 2SA1048(Y.G.R.)  
 or 2SA1305(AI.Q.R.)  
 or 2SA933(SI.Q.R.)  
 or 2SA1175(F.E.)  
 or JA101(P.O.)  
 Q109-110 2SD1302(S.T.)
- D1 109-116 122  
 or 1N4148  
 D3 RD5 1ES(B2)  
 or HZ55 1NIB2)  
 or BZX55-C5V1  
 or RD3 3ES(B2)  
 or HZ53 3NIB2)  
 or BZX55-C3V3

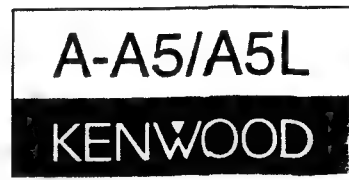
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

A-A5/A5L(K)(1/4)



Y05-2670-11





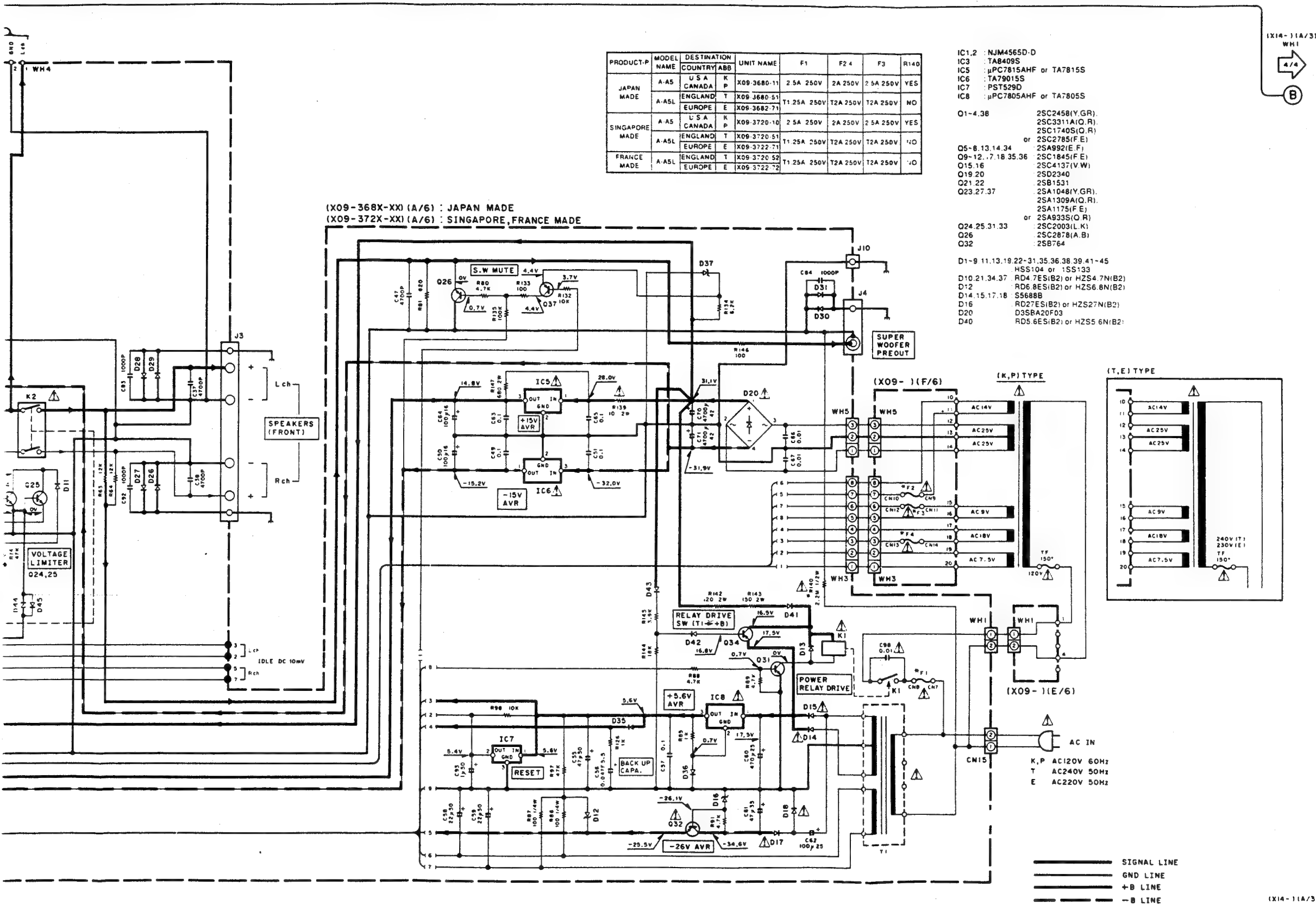
PRODUCT-P	MODEL NAME	DESTINATION COUNTRY	ABB	UNIT NAME	F1	F2 4	F3	R1
JAPAN MADE	A-A5	USA CANADA	K P	X09-3680-11	2 5A 250V	2A 250V	2 5A 250V	YE
	A-ASL	ENGLAND	T	X09-3680-51	T1 25A 250V	T2A 250V	T2A 250V	NO
		EUROPE	E	X09-3682-71				
SINGAPORE MADE	A-A5	USA CANADA	K P	X09-3720-10	2 5A 250V	2A 250V	2 5A 250V	YE
	A-ASL	ENGLAND	T	X09-3720-51	T1 25A 250V	T2A 250V	T2A 250V	NO
FRANCE MADE	A-ASL	ENGLAND	T	X09-3720-52	T1 25A 250V	T2A 250V	T2A 250V	NO
		EUROPE	E	X09-3722-72				


IC1,2 : NJM4565D-D  
IC3 : TA8409S  
IC5 :  $\mu$ PC7815AHF or TA7815S  
IC6 : TA79015S  
IC7 : PST529D  
IC8 :  $\mu$ PC7805AHF or TA7805S

Q1-4.38	2SC2458(Y.G.R)
	2SC3311(A.Q.R)
	2SC1740S(Q.R)
	or 2SC785(F.E)
Q5-8.13.14.34	2SA992(E.F)
Q9-12.7.18.35.36	2SC1845(F.E)
Q15.16	2CA3137(V.W)
Q19.20	2SD2340
Q21.22	2SB1531
Q22.27.37	2SA1048(Y.G.R)
	2SA1309(A.Q.R)
	2SA1175(F.E)
	or 2SA933S(Q.R)
Q25.25.31.33	2SC2003(L.K)
Q26	2SC2878(A.B)
Q32	2SB764

D1-9 11.13.19.22-31.35.36.38.39.41-45  
HSS104 or 1SS133  
D10.21.34.37 RD4.7ESi(B2) or HZS4.7N(B2)  
D12 RD6.8ESi(B2) or HZS6.8N(B2)  
D14.15.17.18 RS688B  
D16 RD27ESi(B2) or HZS27N(B2)  
D20 D3SBA20F03  
D40 RD5.6ESi(B2) or HZS5.6N(B2)

(X09-368X-XX) (A/6) : JAPAN MADE  
(X09-372X-XX) (A/6) : SINGAPORE, FRANCE MADE



**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

(K,P,T,E type)

**A-A5/A5L**

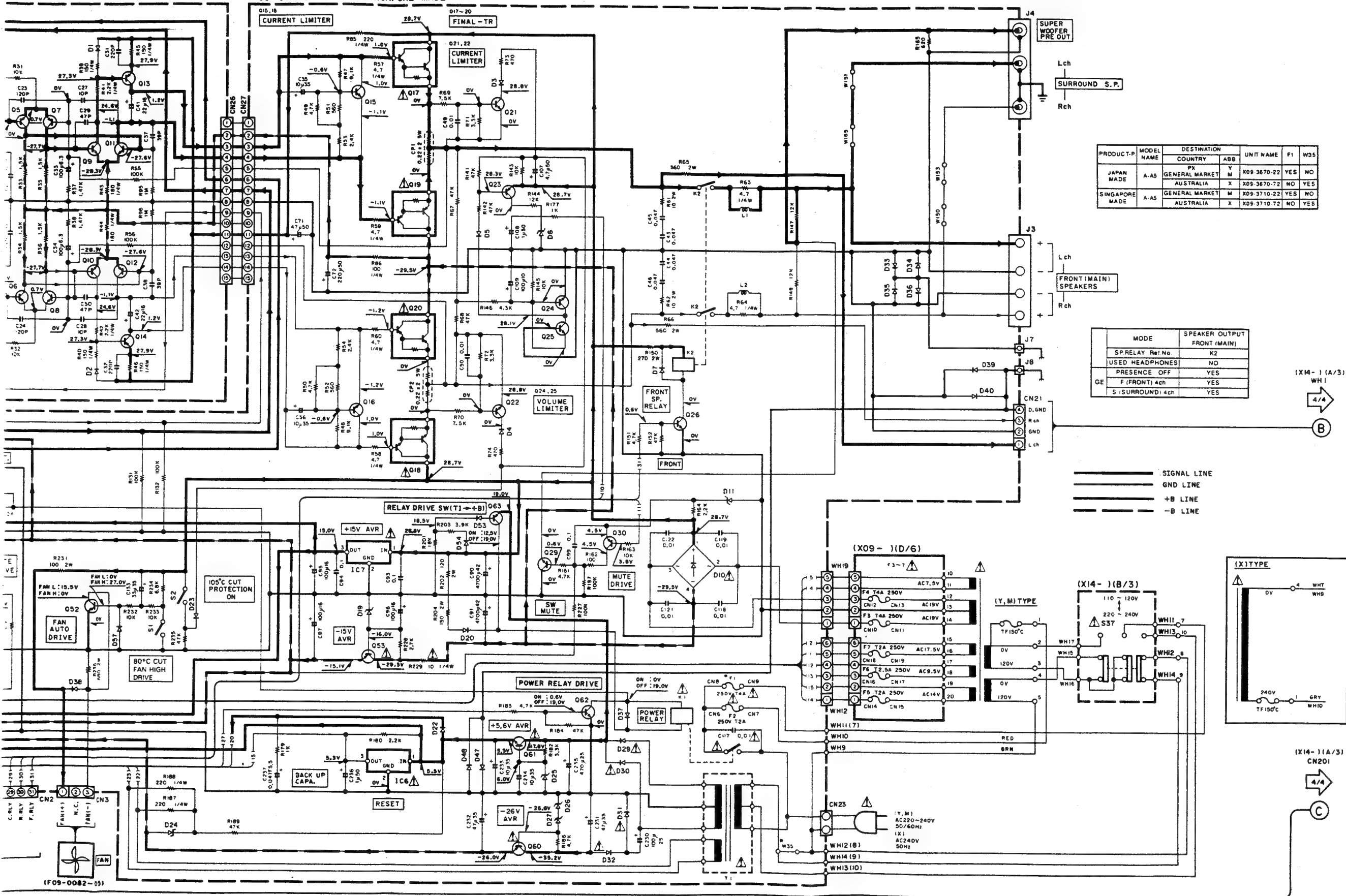
KENWOOD

Y05-2670-11

TA84C



(X09-367X-XX)(A/6): JAPAN MADE  
(X09-371X-XX)(A/6): SINGAPORE MADE



<K,P,T,E type>  
(X09-11A/6)  
CN6



(X09-11A/6)  
CN2



<Y,M,X type>

(X14-362X-XX)(A/3): JAPAN MADE  
(X14-364X-XX)(A/3): SINGAPORE, FRANCE MADE

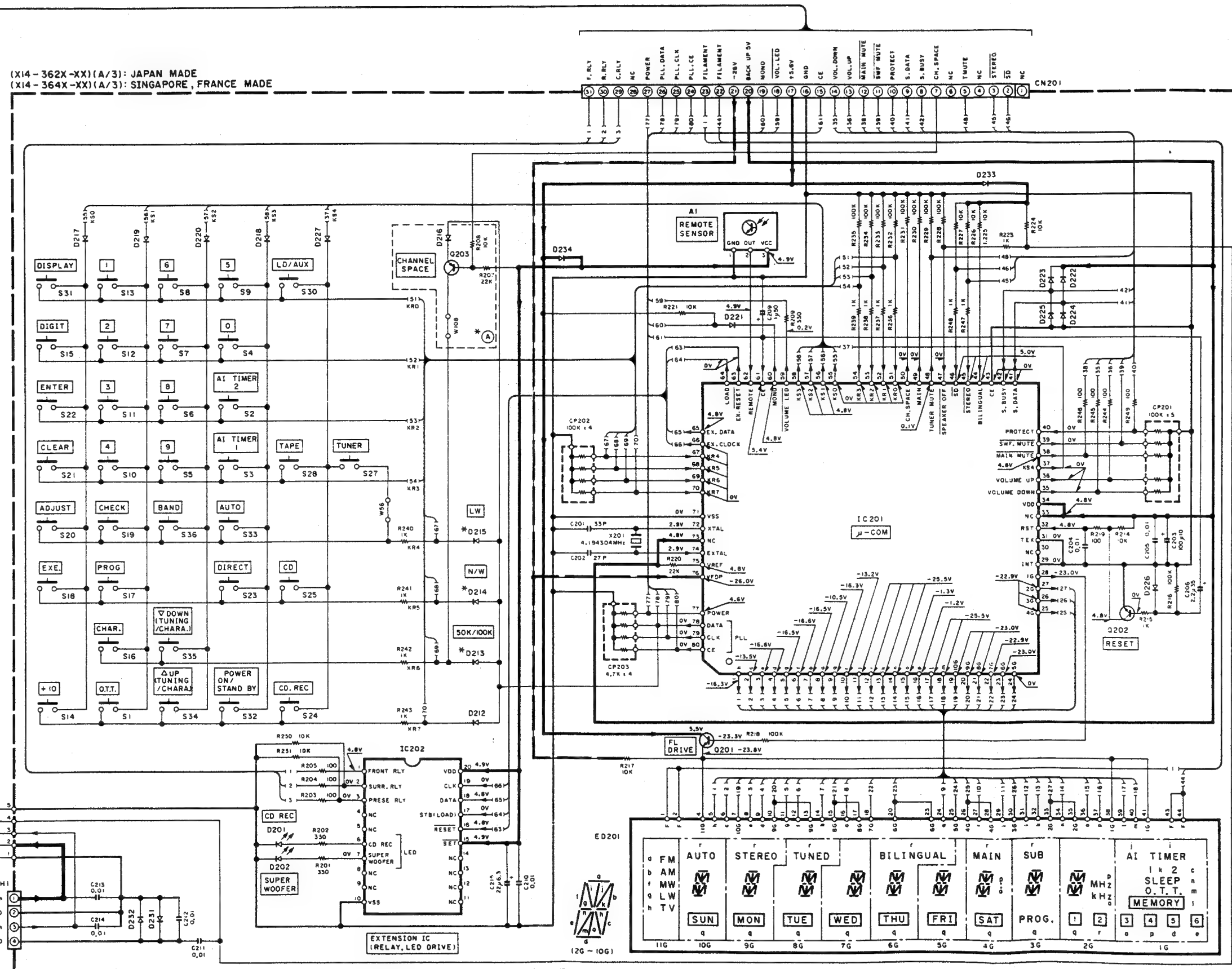
— GND LINE  
— +B LINE  
— -B LINE

<K,P.T.E. type>  
(X09-11A/6)  
CN5



(X09-11A/6)  
CN21

<Y,M,X type>



PRODUCT-P	MODEL NAME	DESTINATION	
		COUNTRY	ABB
JAPAN MADE	A-A5	U.S.A	K
		CANADA	P
	A-A5L	GENERAL MARKET	M
		AUSTRALIA	X
SINGAPORE MADE	A-A5	EUROPE	T
		ENGLAND	E
	A-A5L	U.S.A	K
		CANADA	P
FRANCE MADE	A-A5	GENERAL MARKET	M
		AUSTRALIA	X
	A-A5L	EUROPE	T
		ENGLAND	E

IC201 : CXP50116-397Q  
or CXP50116-397QA  
IC202 : CX-7991

Q201,202 : 2SC4038(Q,R)  
Q203 : 2SA1561(Q,R)

D201,202 : B301291-05  
D212-227,231-234 : HSS104  
or 1SS133  
or 1N4148

A1 : W021046-05

ED201 : FIP11AM7R

A-A5(K)(4/4)

PRODUCT-P	MODEL NAME	DESTINATION		UNIT NAME	D213	D214	D215	(A)
		COUNTRY	ABB					
JAPAN MADE	A-A5	U.S.A	K	X14-3620-12	NO	NO	NO	NO
		CANADA	P					
		GENERAL MARKET	Y	X14-3620-22	NO	YES	NO	YES
		AUSTRALIA	X	X14-3620-72	YES	YES	NO	NO
SINGAPORE MADE	A-A5L	EUROPE	T	X14-3622-72	YES	YES	YES	NO
		ENGLAND	E					
		U.S.A	K	X14-3640-11	NO	NO	NO	NO
		CANADA	P					
FRANCE MADE	A-A5L	GENERAL MARKET	M	X14-3640-22	NO	YES	NO	YES
		AUSTRALIA	X	X14-3640-72	YES	YES	NO	NO
		EUROPE	T	X14-3642-72	YES	YES	YES	NO
		ENGLAND	E					

IC201 : CXP50116-397Q  
or CXP50116-397QA  
IC202 : CX-7991

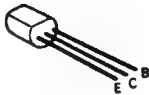
D201,202 : 2SC4038(Q,R)  
C203 : 2SA1561(Q,R)

D201,202 : B30-1291-05  
D212~227,231~234 : HSS104  
or 1SS133  
or 1N4148

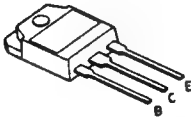
A1 : W02-1046-05

ED201 : FIP11AM7R

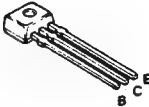
JA101  
JC501  
2SA1123  
2SA1534A  
2SA954  
2SA992  
2SB764  
2SC1845  
2SC1923  
2SC2003  
2SC2878  
2SD1302



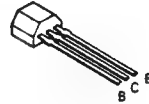
2SB1531  
2SD2340



2SA1175  
2SC2785



DTC124ES  
2SA1048  
2SA933S  
2SC1740S  
2SC2458



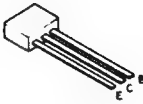
2SC4137



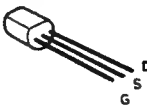
2SD2061



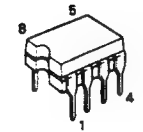
UN4212  
2SA1309A  
2SC3311A



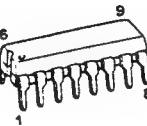
2SC4038



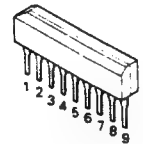
NJM4565D-D



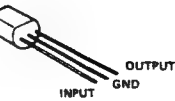
LM7001



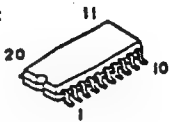
TA8409S



PST529D



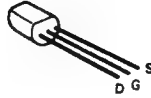
PST529C



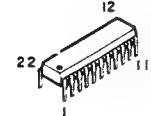
UPC7805AHF  
UPC7815AHF



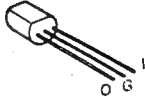
2SK163  
2SK364



LA1265  
LA3401



CX-7991




TA7805S  
TA7815S



TA79015S

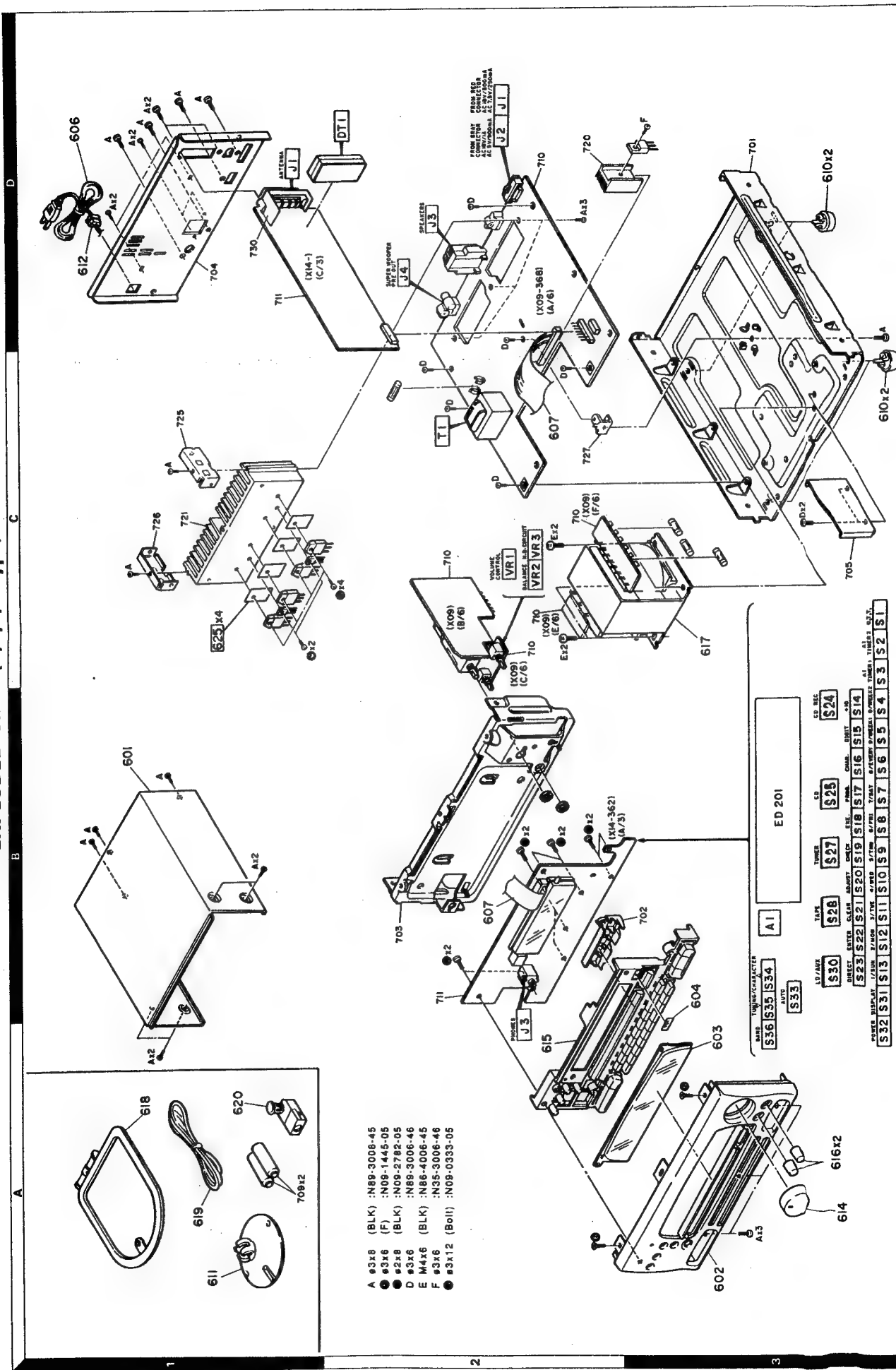


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

**A-A5/A5L A-A5/A5L**

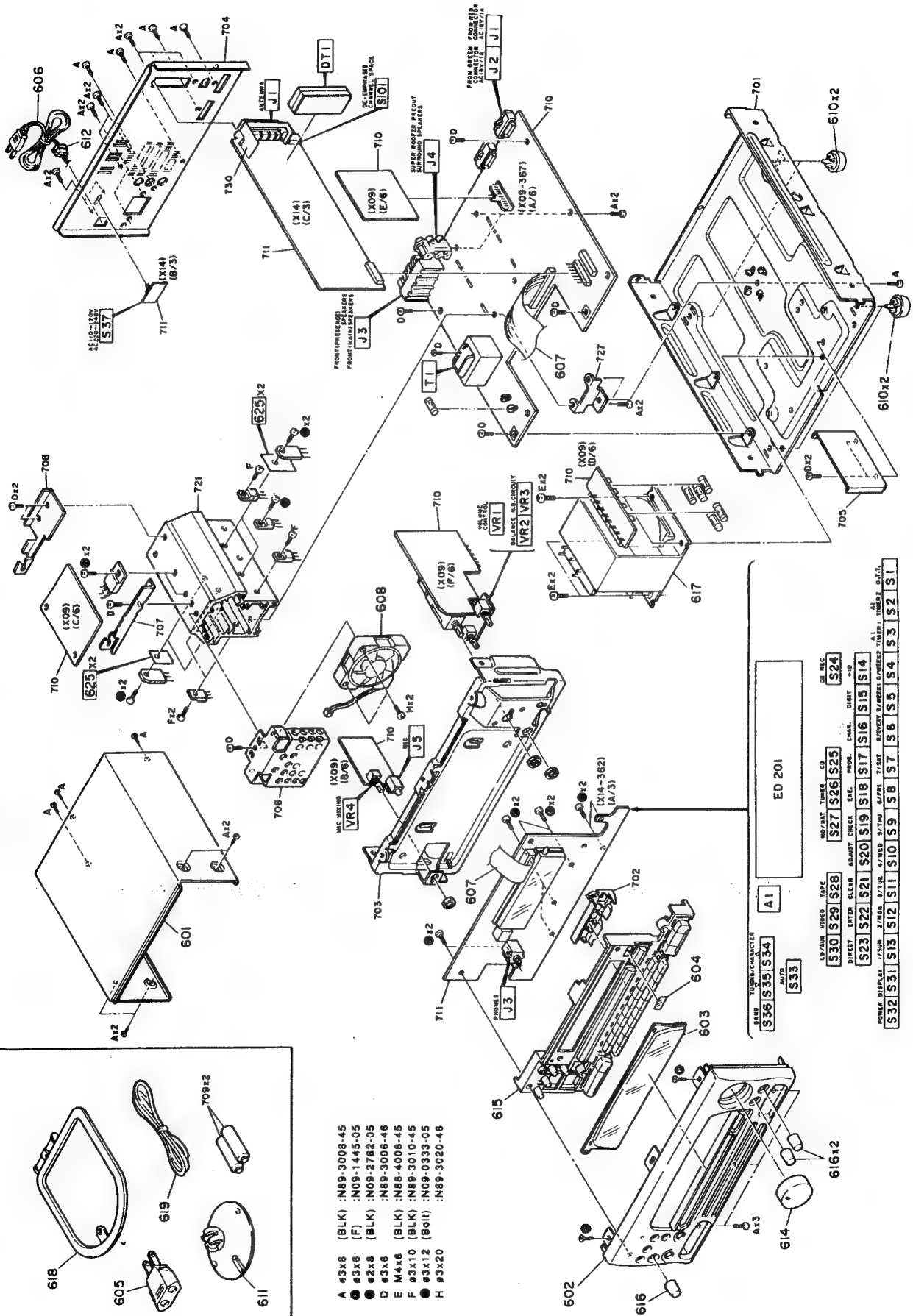
**EXPLODED VIEW (K,P,T,E type)**





# A-A5/A5L A-A5/A5L

## EXPLODED VIEW (Y,M,X type)



Refer to the schematic diagram for the values of registers and capacitors.

# A-A5/A5L

## PARTS LIST

\* New Parts  
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 Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位 置	New 部 品 番 号	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Desti- nation 仕 向	Re- marks 備 考
A-A5/A5L (K.P.T.E type): JAPAN MADE						
601	1B	*	A01-2956-01	METALLIC CABINET	KP	
602	3A	*	A60-0258-01	PANEL(A-A5)	TE	
603	3A	*	A60-0259-01	PANEL(A-A5L)		
604	3A	*	B10-1928-03	FRONT GLASS	K	
-	3B	*	B11-0259-04	SMOKED FILTER	P	
-	-	*	B46-0092-13	WARRANTY CARD	E	
-	-	*	B46-0121-13	WARRANTY CARD		
-	-	*	B46-0122-23	WARRANTY CARD	T	
-	-	*	B46-0143-13	WARRANTY CARD		
-	-	*	B60-0930-00	INSTRUCTION MANUAL(ENGLISH)	E	
-	-	*	B60-0932-00	INSTRUCTION MANUAL(SPANISH)	PE	
-	-	*	B60-0934-00	INSTRUCTION MANUAL(FRENCH)		
-	-	*	B60-0935-00	INSTRUCTION MANUAL(GERMAN)	E	
-	-	*	B60-0936-00	INSTRUCTION MANUAL(DUTCH)	E	
-	-	*	B60-0937-00	INSTRUCTION MANUAL(ITALIAN)	E	
606	1D	*	E30-2592-15	AC POWER CORD	E	
606	1D	*	E30-2593-15	AC POWER CORD	T	
606	1D	*	E30-2650-05	AC POWER CORD	KP	
607	2B, 2C	*	E35-0495-05	WIRING HARNESS		
-	-	*	H10-5300-02	POLYSTYRENE FOAMED FIXTURE(L)	KPE	
-	-	*	H10-5301-02	POLYSTYRENE FOAMED FIXTURE(R)		
-	-	*	H10-5391-03	POLYSTYRENE FOAMED FIXTURE(F)		
-	-	*	H13-0039-04	CARTON BOARD		
-	-	*	H25-0632-24	PROTECTION BAG		
-	-	*	H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-	-	*	H25-0681-04	PROTECTION BAG		
-	-	*	H50-0356-04	ITEM CARTON CASE(A-A5)	KP	
-	-	*	H50-0357-04	ITEM CARTON CASE(A-A5L)	TE	
610	3D	*	J02-0370-05	FOOT		
611	1A	*	J19-2815-04	ANTENNA HOLDER		
612	1D	*	J42-0083-05	POWER CORD BUSHING		
-	-	*	J61-0307-05	WIRE BAND		
614	3A	*	K29-4358-04	KN08 ASSY(VOLUME CONTROL)		
615	2A	*	K29-4426-01	KN08(POWER, DISPLAY etc.)		
616	3A	*	K29-4427-04	KN08(BALANCE, N.B.CIRCUIT)		
617	3C	*	L07-0546-15	POWER TRANSFORMER	KP	
617	3C	*	L07-0549-15	POWER TRANSFORMER	E	
617	3C	*	L07-0570-15	POWER TRANSFORMER	T	
A	1B	*	N89-3008-45	BINDING HEAD TAPITITE SCREW		
B	3A	*	N09-1445-05	SET SCREW (M3X8)		
C	2B	*	N09-2782-05	TAPITITE SCREW (2.6X8)		
D	3C	*	N89-3006-46	BINDING HEAD TAPITITE SCREW		
E	2C	*	N86-4006-45	BINDING HEAD TAPITITE SCREW		
F	2B	*	N35-3006-46	BINDING HEAD MACHINE SCREW		
G	2C	*	N09-0333-05	TAPPING SCREW (3X12)		
618	1A	*	T90-0173-05	LOOP ANTENNA(CAN)		
619	1A	*	T90-0176-05	T TYPE ANTENNA(CAN)		
620	1A	*	T90-0185-05	ANTENNA ADAPTOR	TE	

L:Scandinavia K:USA P:Canada S: SINGAPORE MADE  
 Y:PA(Far East, Hawaii) T:England E:Europe F: FRANCE MADE  
 Y:AFES(Europe) X:Australia M:Other Areas  
 Δ indicates safety critical components.

## PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
<b>A-A5/A5L (K,P,T,E type): SINGAPORE MADE</b>				
601	1B	* A01-2966-01	METALLIC CABINET	S
602	3A	* A60-0258-01	PANEL(A-A5)	KP
602	3A	* A60-0259-01	PANEL(A-A5L)	TE
603	3A	* B10-1928-03	FRONT GLASS	K
604	3B	* B11-0259-04	SMOKED FILTER	P
-	-	* B46-0121-13	WARRANTY CARD	E
-	-	* B46-0122-23	WARRANTY CARD	E
-	-	* B46-0143-13	WARRANTY CARD	T
-	-	* B60-0930-00	INSTRUCTION MANUAL(ENGLISH)	E
-	-	* B60-0932-00	INSTRUCTION MANUAL(SPANISH)	E
-	-	* B60-0934-00	INSTRUCTION MANUAL(FRENCH)	E
-	-	* B60-0936-00	INSTRUCTION MANUAL(ITALIAN)	PE
-	-	* B60-0935-00	INSTRUCTION MANUAL(GERMAN)	E
-	-	* B60-0936-00	INSTRUCTION MANUAL(DUTCH)	E
-	-	* B60-0937-00	INSTRUCTION MANUAL(ITALIAN)	E
606	1D	E30-2592-15	AC POWER CORD	E
606	1D	E30-2593-15	AC POWER CORD	E
607	2B, 2C	E35-0495-05	WIRING HARNESS	E
-	-	* H10-5324-02	POLYSTYRENE FOAMED FIXTURE(L)	KP
-	-	* H10-5325-02	POLYSTYRENE FOAMED FIXTURE(R)	S
-	-	* H10-5330-03	POLYSTYRENE FOAMED FIXTURE(F)	S
-	-	* H13-0086-04	CARTON BOARD	S
-	-	* H25-0632-24	PROTECTION BAG	S
-	-	* H25-0644-04	PROTECTION BAG (0632 PRINTED)	T
-	-	* H25-0681-04	PROTECTION BAG	KP
-	-	* H50-0421-04	ITEM CARTON CASE(A-A5L)	TE
610	3D	J02-0370-05	FOOT	S
611	1A	J19-2815-04	ANTENNA HOLDER	S
612	1D	J42-0083-05	POWER CORD BUSHING	S
-	-	* J51-0307-05	WIRE BAND	S
614	3A	K29-4358-04	KNOB ASSY(VOLUME CONTROL)	KP
615	2A	K29-4426-01	KNOB(POWER DISPLAY ETC.)	E
616	3A	* K29-4427-04	KNOB(BALANCE,N.B.CIRCUIT)	T
617	3C	* L07-0546-15	POWER TRANSFORMER	KP
617	3C	* L07-0549-15	POWER TRANSFORMER	E
617	3C	* L07-0570-15	POWER TRANSFORMER	T
A	1B	N89-3008-45	BINDING HEAD TAPITTE SCREW	KP
B	3A	N09-1445-05	SET SCREW (M3X8)	E
C	2B	N09-2782-05	TAPITTE SCREW (2.6X8)	T
D	3C	N89-3006-46	BINDING HEAD TAPITTE SCREW	KP
E	2C	N86-4006-45	BINDING HEAD TAPITTE SCREW	E
F	2B	N35-3006-46	BINDING HEAD MACHINE SCREW	KP
G	2C	N09-0333-05	TAPPING SCREW (3X12)	E
618	1A	T90-0174-05	LOOP ANTENNA(AM)	TE
619	1A	T90-0175-05	T TYPE ANTENNA(FM)	S
620	1A	T90-0185-05	ANTENNA ADAPTOR	S

L:Scandinavia K:USA P:Canada  
Y:PX(Far East, Hawaii) T:England E:Europe  
Y:AFES(Europe) X:Australia M:Other Areas

S: SINGAPORE MADE  
F: FRANCE MADE

△ indicates safety critical components

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Ref. No. 参照番号	Address 位置	New Parts 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
<b>A-A5L (T,E type): FRANCE MADE</b>				
601	1B	* A01-2956-01	METALLIC CABINET	E
602	3A	* A60-0259-01	PANEL(A-A5L)	T
603	3A	* B10-1928-03	FRONT GLASS	E
604	3B	* B11-0259-04	SMOKED FILTER	E
-	-	* B46-0122-23	WARRANTY CARD	E
-	-	* B46-0143-13	WARRANTY CARD	E
-	-	* B60-0930-00	INSTRUCTION MANUAL(ENGLISH)	E
-	-	* B60-0932-00	INSTRUCTION MANUAL(SPANISH)	E
-	-	* B60-0934-00	INSTRUCTION MANUAL(FRENCH)	E
-	-	* B60-0935-00	INSTRUCTION MANUAL(GERMAN)	E
-	-	* B60-0936-00	INSTRUCTION MANUAL(DUTCH)	E
-	-	* B60-0937-00	INSTRUCTION MANUAL(ITALIAN)	E
606	1D	E30-2592-15	AC POWER CORD	E
606	1D	E30-2593-15	AC POWER CORD	E
607	2B, 2C	E35-0495-05	WIRING HARNESS	T
-	-	* H10-5326-02	POLYSTYRENE FOAMED FIXTURE(L)	E
-	-	* H10-5327-02	POLYSTYRENE FOAMED FIXTURE(R)	E
-	-	* H10-5389-03	POLYSTYRENE FOAMED FIXTURE(F)	E
-	-	* H13-0039-04	CARTON BOARD	E
-	-	* H25-0632-24	PROTECTION BAG	T
-	-	* H25-0644-04	PROTECTION BAG (0632 PRINTED)	E
-	-	* H25-0681-04	PROTECTION BAG	E
-	-	* H50-0421-04	ITEM CARTON CASE(A-A5L)	E
610	3D	J02-0370-05	FOOT	E
611	1A	J19-2815-04	ANTENNA HOLDER	E
612	1D	J42-0083-05	POWER CORD BUSHING	E
-	-	* J51-0307-05	WIRE BAND	E
614	3A	K29-4358-04	KNOB ASSY(VOLUME CONTROL)	E
615	2A	K29-4426-01	KNOB(POWER DISPLAY ETC.)	E
616	3A	* K29-4427-04	KNOB(BALANCE,N.B.CIRCUIT)	E
617	3C	* L07-0549-15	POWER TRANSFORMER	E
617	3C	* L07-0570-15	POWER TRANSFORMER	E
A	1B	N89-3008-45	BINDING HEAD TAPITTE SCREW	E
B	3A	N09-1445-05	SET SCREW (M3X8)	E
C	2B	N09-2782-05	TAPITTE SCREW (2.6X8)	E
D	3C	N89-3006-46	BINDING HEAD TAPITTE SCREW	E
E	2C	N86-4006-45	BINDING HEAD TAPITTE SCREW	E
F	2B	N35-3006-46	BINDING HEAD MACHINE SCREW	E
G	2C	N09-0333-05	TAPPING SCREW (3X12)	E
618	1A	T90-0174-05	LOOP ANTENNA(AM)	S
619	1A	T90-0175-05	T TYPE ANTENNA(FM)	S
620	1A	T90-0185-05	ANTENNA ADAPTOR	S
<b>A-A5 (Y,M,X type): JAPAN MADE</b>				
601	1F	* A01-2956-01	METALLIC CABINET	
602	2E	* A60-0257-01	PANEL(A-A5)	
603	3E	* B10-1928-03	FRONT GLASS	
604	3F	* B11-0259-04	SMOKED FILTER	
-	-	* B46-0094-03	WARRANTY CARD	Y

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
-	-	B46-0095-03	WARRANTY CARD	Y	
-	-	B46-0096-33	WARRANTY CARD (PRESET220-240)	X	
-	-	B58-0513-04	CAUTION MANUAL(ENGLISH)	Y	
-	-	B60-0930-00	INSTRUCTION MANUAL(CHINESE)		
-	-	B60-0931-00	INSTRUCTION MANUAL(CHINESE)	M	
-	-	B60-0932-00	INSTRUCTION MANUAL(SPANISH)	M	
-	-	B60-0987-00	INSTRUCTION MANUAL(ARABIC)	M	
-	-	E03-0115-05	AC PLUG ADAPTER	M	
Δ 605	1E	E30-2592-15	AC POWER CORD	M	
Δ 606	1H	E30-2594-15	AC POWER CORD	M	
Δ 606	1H	E30-2594-15	AC POWER CORD	M	
Δ 607	2F, 2G	E35-0404-05	WIRING HARNESS	Y	
608	2G	F09-0082-05	FAN		
-	-	H10-5300-02	POLYSTYRENE FOAMED FIXTURE(L)	M	
-	-	H10-5301-02	POLYSTYRENE FOAMED FIXTURE(R)	M	
-	-	H10-5391-03	POLYSTYRENE FOAMED FIXTURE(F)	M	
-	-	H13-0039-04	CARTON BOARD	M	
-	-	H25-0632-24	PROTECTION BAG	M	
-	-	H25-0681-04	PROTECTION BAG	M	
-	-	H50-0356-04	ITEM CARTON CASE(A-A5)	Y	
-	-	J02-0370-05	FOOT		
610	3H	J19-2815-04	ANTENNA HOLDER		
611	1E	J42-0083-05	POWER CORD BUSHING		
Δ 612	1H	J61-0307-05	WIRE BAND		
-	-	K29-4358-04	KNOB ASSY(VOLUME CONTROL)		
614	3E	K29-4426-01	KNOB(POWER, DISPLAY ETC.)		
615	2E	K29-4426-01	KNOB(POWER, DISPLAY ETC.)		
616	3E	K29-4427-04	KNOB(BALANCE, N.B. CIRCUIT)		
Δ 617	3G	L07-0547-15	POWER TRANSFORMER		
Δ 617	3G	L07-0548-15	POWER TRANSFORMER		
A	1F	N89-3008-45	BINDING HEAD TAPITTE SCREW		
B	3E	N09-1445-05	SET SCREW (M3X8)		
C	2E	N09-2782-05	TAPITTE SCREW (2.6X8)		
D	2F	N89-3006-46	BINDING HEAD TAPITTE SCREW		
E	2G	N86-4006-45	BINDING HEAD TAPITTE SCREW		
F	1G	N89-3010-45	BINDING HEAD TAPITTE SCREW		
G	1G	N09-0333-05	TAPPING SCREW (3X12)		
H	2F	N89-3020-46	BINDING HEAD TAPITTE SCREW		
618	1E	T90-0173-05	LOOP ANTENNA(AH)		
619	1E	T90-0176-05	T TYPE ANTENNA(FH)		
A-A5 (M.X type): SINGAPORE MADE					
601	1F	A01-2966-01	METALLIC CABINET		
602	2E	A60-0257-01	PANEL(A-A5)		
603	3E	B10-1928-03	FRONT GLASS		
604	3F	B11-0259-04	SMOKED FILTER		
-	-	B46-0096-33	WARRANTY CARD	X	
-	-	B60-0930-00	INSTRUCTION MANUAL(ENGLISH)		
-	-	B60-0931-00	INSTRUCTION MANUAL(CHINESE)	M	
-	-	B60-0932-00	INSTRUCTION MANUAL(SPANISH)	M	
-	-	B60-0987-00	INSTRUCTION MANUAL(ARABIC)	M	
Δ 605	1E	E03-0115-05	AC PLUG ADAPTER	M	

L:Scandinavia K:USA P:Canada S: SINGAPORE MADE  
Y:PK(Far East, Hawaii) T:England E:Europe F: FRANCE MADE  
Y:AFES(Europe) X:Australia M:Other Areas Δ indicates safety critical components

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
Δ 606	1F	E30-2592-15	AC POWER CORD	M	
Δ 606	1F	E30-2594-15	AC POWER CORD	X	
Δ 607	2F, 2G	E35-0404-05	WIRING HARNESS		
608	2G	F09-0082-05	FAN		
-	-	H10-5324-02	POLYSTYRENE FOAMED FIXTURE(L)		
-	-	H10-5325-02	POLYSTYRENE FOAMED FIXTURE(R)		
-	-	H10-5390-03	POLYSTYRENE FOAMED FIXTURE(F)		
-	-	H13-0086-04	CARTON BOARD		
-	-	H25-0632-24	PROTECTION BAG		
-	-	H25-0681-04	PROTECTION BAG		
-	-	H50-0418-04	ITEM CARTON CASE(A-A5)	X	
-	-	H50-0419-04	ITEM CARTON CASE(A-A5)	M	
610	3H	J02-0370-05	FOOT		
611	1E	J19-2815-04	ANTENNA HOLDER		
Δ 612	1H	J42-0083-05	POWER CORD BUSHING		
-	-	J61-0307-05	WIRE BAND		
614	3E	K29-4358-04	KNOB ASSY(VOLUME CONTROL)		
615	2E	K29-4426-01	KNOB(POWER, DISPLAY ETC.)		
616	3E	K29-4427-04	KNOB(BALANCE, N.B. CIRCUIT)		
Δ 617	3G	L07-0547-15	POWER TRANSFORMER		
Δ 617	3G	L07-0548-15	POWER TRANSFORMER		
A	1E	N89-3008-45	BINDING HEAD TAPITTE SCREW		
B	3F	N09-1445-05	SET SCREW (M3X8)		
C	2F	N09-2782-05	TAPITTE SCREW (2.6X8)		
D	2F	N89-3006-46	BINDING HEAD TAPITTE SCREW		
E	2G	N86-4006-45	BINDING HEAD TAPITTE SCREW		
F	1G	N89-3010-45	BINDING HEAD TAPITTE SCREW		
G	1G	N09-0333-05	TAPPING SCREW (3X12)		
H	2F	N89-3020-46	BINDING HEAD TAPITTE SCREW		
618	1E	T90-0174-05	LOOP ANTENNA(AH)		
619	1E	T90-0175-05	T TYPE ANTENNA(FH)		
AUDIO UNIT (K.P.T.E type) X09-368: JAPAN MADE X09-372: SINGAPORE, FRANCE MADE					
C1, 2		C91-0749-05	CERAMIC		
C3, 4		CE04KH1V100M	ELECTRO	K	
C5, 6		CC45FSL1H560J	CERAMIC	J	
C7, 8		C90-3253-05	ELECTRO	50WV	
C9, 10		CC45FSL1H561K	CERAMIC	560PF	
C11, 12		CE04KH1H010M	ELECTRO	1.0UF	
C13, 14		C90-3253-05	ELECTRO	50WV	
C15, 16		CC45FSL1H220J	CERAMIC	2.2UF	
C17, 18		CC45FSL1H221J	CERAMIC	220PF	
C19, 20		CC45FSL1H221J	CERAMIC	220PF	
C21, 22		CC45FSL1H100D	CERAMIC	10PF	
C23, 24		CC45FSL1H470J	CERAMIC	47PF	
C25, 26		CC45FSL1H390J	CERAMIC	39PF	
C27, 28		CC45FSL1H221J	CERAMIC	220PF	
C29, 30		CF92FV1H103J	MF	0.010UF	
C31, 32		CF92FV1H222J	MF	2200PF	
C33, 36		CF92FV1H104J	MF	0.10UF	
C37, 38		CF92FV1H472J	MF	4700PF	
C39, 40		CE04KH1C101M	ELECTRO	100UF	
C41, 44		C91-0749-05	CERAMIC	220PF	

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
C45		C90-3258-05	ELECTRØ		
C46		C604K1A101M	100UF		50WV
C47		C92EV1H472J	100UF		10WV
C48		C604H1E330M	33UF		25WV
C49		C92EV1H104J	NP-ELEC		J
			0.10UF		
C50		C604K1C101M	ELECTRØ		16WV
C51		C92EV1H104J	MF		J
C52		C604K1H472M	1.0UF		50WV
C53	.54	C604K1H470M	ELECTRØ		50WV
C54		C90-1826-05	47UF		5.5WV
C55			BACKUP		
C56			0.047F		
C57		C92EV1H104J	MF		J
C58	.59	C604K1C101M	ELECTRØ		50WV
C59		C604K1H220M	22UF		50WV
C60		C604K1E471M	ELECTRØ		25WV
C61		C604K1V470M	47UF		35WV
C62		C604K1E101M	ELECTRØ		25WV
C63		C92EV1H104J	MF		J
C64		C604K1C101M	ELECTRØ		16WV
C65		C92EV1H104J	MF		J
C66	.67	C92EV1H103J	0.10UF		50WV
C67	.69	C604K1H221M	220UF		50WV
C68			ELECTRØ		
C69	.71	C90-1966-05	4700UF		42WV
C70	.74	C92EV1H154J	MF		J
C71	.76	C604H1H101M	0.15UF		50WV
C72	.77	C92EV1H105J	NP-ELEC		J
C73	.78	C604K1H105J	1.0UF		K
C74	.84	C604K1H102K	CERAMIC		
C75	.88	C90-3247-05	ELECTRØ		35WV
C76		C604K1C101M	0.010UF		Z
C77		C604K1H223Z	CERAMIC		0.022UF
C78		C604K1H102K	CERAMIC		1000PF
C79		C604K1H101M	ELECTRØ		1.0UF
C80		C604K1H101M	CERAMIC		1000PF
C81		C604K1H101M	ELECTRØ		1000PF
C82		C604K1H101M	ELECTRØ		1000PF
C83		C604K1H101M	ELECTRØ		1000PF
C84		C604K1H101M	ELECTRØ		1000PF
C85		C604K1H101M	ELECTRØ		1000PF
C86		C604K1H101M	ELECTRØ		1000PF
C87		C604K1H101M	ELECTRØ		1000PF
C88		C604K1H101M	ELECTRØ		1000PF
C89		C604K1H101M	ELECTRØ		1000PF
C90		C604K1H101M	ELECTRØ		1000PF
C91		C604K1H101M	ELECTRØ		1000PF
C92		C604K1H101M	ELECTRØ		1000PF
C93		C604K1H101M	ELECTRØ		1000PF
C94		C604K1H101M	ELECTRØ		1000PF
C95		C604K1H101M	ELECTRØ		1000PF
C96		C604K1H101M	ELECTRØ		1000PF
C97		C604K1H101M	ELECTRØ		1000PF
C98		C604K1H101M	ELECTRØ		1000PF
C99		C604K1H101M	ELECTRØ		1000PF
C100		C604K1H101M	ELECTRØ		1000PF
C101		C604K1H101M	ELECTRØ		1000PF
C102		C604K1H101M	ELECTRØ		1000PF
C103		C604K1H101M	ELECTRØ		1000PF
C104		C604K1H101M	ELECTRØ		1000PF
C105		C604K1H101M	ELECTRØ		1000PF
C106		C604K1H101M	ELECTRØ		1000PF
C107		C604K1H101M	ELECTRØ		1000PF
C108		C604K1H101M	ELECTRØ		1000PF
C109		C604K1H101M	ELECTRØ		1000PF
C110		C604K1H101M	ELECTRØ		1000PF
C111		C604K1H101M	ELECTRØ		1000PF
C112		C604K1H101M	ELECTRØ		1000PF
C113		C604K1H101M	ELECTRØ		1000PF
C114		C604K1H101M	ELECTRØ		1000PF
C115		C604K1H101M	ELECTRØ		1000PF
C116		C604K1H101M	ELECTRØ		1000PF
C117		C604K1H101M	ELECTRØ		1000PF
C118		C604K1H101M	ELECTRØ		1000PF
C119		C604K1H101M	ELECTRØ		1000PF
C120		C604K1H101M	ELECTRØ		1000PF
C121		C604K1H101M	ELECTRØ		1000PF
C122		C604K1H101M	ELECTRØ		1000PF
C123		C604K1H101M	ELECTRØ		1000PF
C124		C604K1H101M	ELECTRØ		1000PF
C125		C604K1H101M	ELECTRØ		1000PF
C126		C604K1H101M	ELECTRØ		1000PF
C127		C604K1H101M	ELECTRØ		1000PF
C128		C604K1H101M	ELECTRØ		1000PF
C129		C604K1H101M	ELECTRØ		1000PF
C130		C604K1H101M	ELECTRØ		1000PF
C131		C604K1H101M	ELECTRØ		1000PF
C132		C604K1H101M	ELECTRØ		1000PF
C133		C604K1H101M	ELECTRØ		1000PF
C134		C604K1H101M	ELECTRØ		1000PF
C135		C604K1H101M	ELECTRØ		1000PF
C136		C604K1H101M	ELECTRØ		1000PF
C137		C604K1H101M	ELECTRØ		1000PF
C138		C604K1H101M	ELECTRØ		1000PF
C139		C604K1H101M	ELECTRØ		1000PF
C140		C604K1H101M	ELECTRØ		1000PF
C141		C604K1H101M	ELECTRØ		1000PF
C142		C604K1H101M	ELECTRØ		1000PF
C143		C604K1H101M	ELECTRØ		1000PF
C144		C604K1H101M	ELECTRØ		1000PF
C145		C604K1H101M	ELECTRØ		1000PF
C146		C604K1H101M	ELECTRØ		1000PF
C147		C604K1H101M	ELECTRØ		1000PF
C148		C604K1H101M	ELECTRØ		1000PF
C149		C604K1H101M	ELECTRØ		1000PF
C150		C604K1H101M	ELECTRØ		1000PF
C151		C604K1H101M	ELECTRØ		1000PF
C152		C604K1H101M	ELECTRØ		1000PF
C153		C604K1H101M	ELECTRØ		1000PF
C154		C604K1H101M	ELECTRØ		1000PF
C155		C604K1H101M	ELECTRØ		1000PF
C156		C604K1H101M	ELECTRØ		1000PF
C157		C604K1H101M	ELECTRØ		1000PF
C158		C604K1H101M	ELECTRØ		1000PF
C159		C604K1H101M	ELECTRØ		1000PF
C160		C604K1H101M	ELECTRØ		1000PF
C161		C604K1H101M	ELECTRØ		1000PF
C162		C604K1H101M	ELECTRØ		1000PF
C163		C604K1H101M	ELECTRØ		1000PF
C164		C604K1H101M	ELECTRØ		1000PF
C165		C604K1H101M	ELECTRØ		1000PF
C166		C604K1H101M	ELECTRØ		1000PF
C167		C604K1H101M	ELECTRØ		1000PF
C168		C604K1H101M	ELECTRØ		1000PF
C169		C604K1H101M	ELECTRØ		1000PF
C170		C604K1H101M	ELECTRØ		1000PF
C171		C604K1H101M	ELECTRØ		1000PF
C172		C604K1H101M	ELECTRØ		1000PF
C173		C604K1H101M	ELECTRØ		1000PF
C174		C604K1H101M	ELECTRØ		1000PF
C175		C604K1H101M	ELECTRØ		1000PF
C176		C604K1H101M	ELECTRØ		1000PF
C177		C604K1H101M	ELECTRØ		1000PF
C178		C604K1H101M	ELECTRØ		1000PF
C179		C604K1H101M	ELECTRØ		1000PF
C180		C604K1H101M	ELECTRØ		1000PF
C181		C604K1H101M	ELECTRØ		1000PF
C182		C604K1H101M	ELECTRØ		1000PF
C183		C604K1H101M	ELECTRØ		1000PF
C184		C604K1H101M	ELECTRØ		1000PF
C185		C604K1H101M	ELECTRØ		1000PF
C186		C604K1H101M	ELECTRØ		1000PF
C187		C604K1H101M	ELECTRØ		1000PF
C188		C604K1H101M	ELECTRØ		1000PF
C189		C604K1H101M	ELECTRØ		1000PF
C190		C604K1H101M	ELECTRØ		1000PF
C191		C604K1H101M	ELECTRØ		1000PF
C192		C604K1H101M	ELECTRØ		1000PF
C193		C604K1H101M	ELECTRØ		1000PF
C194		C604K1H101M	ELECTRØ		1000PF
C195		C604K1H101M	ELECTRØ		1000PF
C196		C604K1H101M	ELECTRØ		1000PF
C197		C604K1H101M	ELECTRØ		1000PF
C198		C604K1H101M	ELECTRØ		1000PF
C199		C604K1H101M	ELECTRØ		1000PF
C200		C604K1H101M	ELECTRØ		1000PF
C201		C604K1H101M	ELECTRØ		1000PF
C202		C604K1H101M	ELECTRØ		1000PF
C203		C604K1H101M	ELECTRØ		1000PF
C204		C604K1H101M	ELECTRØ		1000PF
C205		C604K1H101M	ELECTRØ		1000PF
C206		C604K1H101M	ELECTRØ		1000PF
C207		C604K1H101M	ELECTRØ		1000PF
C208		C604K1H101M	ELECTRØ		1000PF
C209		C604K1H101M	ELECTRØ		1000PF
C210		C604K1H101M	ELECTRØ		1000PF
C211		C604K1H101M	ELECTRØ		1000PF
C212		C604K1H101M	ELECTRØ		1000PF
C213		C604K1H101M	ELECTRØ		1000PF
C214		C604K1H101M	ELECTRØ		1000PF
C215		C604K1H101M	ELECTRØ		1000PF
C216		C604K1H101M	ELECTRØ		1000PF
C217		C604K1H101M	ELECTRØ		1000PF
C218		C604K1H101M	ELECTRØ		1000PF
C219		C604K1H101M	ELECTRØ		1000PF
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C221		C604K1H101M	ELECTRØ		1000PF
C222		C604K1H101M	ELECTRØ		1000PF
C223		C604K1H101M	ELECTRØ		1000PF
C224		C604K1H101M	ELECTRØ		1000PF
C225		C604K1H101M	ELECTRØ		1000PF
C226		C604K1H101M	ELECTRØ		1000PF
C227		C604K1H101M	ELECTRØ		1000PF
C228		C604K1H101M	ELECTRØ		1000PF
C229		C604K1H101M	ELECTRØ		1000PF
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C234		C604K1H101M	ELECTRØ		1000PF
C235		C604K1H101M	ELECTRØ		1000PF
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C237		C604K1H101M	ELECTRØ		1000PF
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C240		C604K1H101M	ELECTRØ		1000PF
C241		C604K1H101M	ELECTRØ		1000PF
C242		C604K1H101M	ELECTRØ		1000PF
C243		C604K1H101M	ELECTRØ		1000PF
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C245		C604K1H101M	ELECTRØ		1000PF
C246		C604K1H101M	ELECTRØ		1000PF
C247		C604K1H101M	ELECTRØ		1000PF
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C251		C604K1H101M	ELECTRØ		1000PF
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C265		C604K1H101M	ELECTRØ		1000PF
C266		C604K1H101M	ELECTRØ		1000PF
C267		C604K1H101M	ELECTRØ		1000PF
C268		C604K1H101M	ELECTRØ		1000PF
C269		C604K1H101M	ELECTRØ		1000PF
C270		C604K1H101M	ELECTRØ		1000PF
C271		C604K1H101M	ELECTRØ		1000PF
C272		C604K1H101M	ELECTRØ		1000PF
C273		C604K1H101M	ELECTRØ		1000PF
C274		C604K1H101M	ELECTRØ		1000PF
C275		C604K1H101M	ELECTRØ		1000PF
C276					

## PARTS LIST

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕
IC5		TA7815S	IC(VOLTAGE REGULATOR/ +15V)	
IC6		UPC7815AHF	IC(VOLTAGE REGULATOR/+15V)	
IC7		TA78015S	IC(VOLTAGE REGULATOR/ -15V)	
IC8		PST329D	IC(SYSTEM RESET)	
IC9		TA7805S	IC(VOLTAGE REGULATOR/ +5V)	
IC10		UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)	
Q1 -4		2SC1740S(Q,R)	TRANSISTOR	
Q1 -4		2SC2458(Y,G,R)	TRANSISTOR	
Q1 -4		2SC2785(F,E)	TRANSISTOR	
Q1 -4		2SC3311A(Q,R)	TRANSISTOR	
Q5 -8		2SA992(E,F)	TRANSISTOR	
Q9 -12		2SC1845(F,E)	TRANSISTOR	
Q13 ,14		2SA992(E,F)	TRANSISTOR	
Q15 ,16		2SC4137(V,W)	TRANSISTOR	
Q17 ,18		2SC1845(F,E)	TRANSISTOR	
Q19 ,20		2SD2340	TRANSISTOR	
Q21 ,22		2SB1531	TRANSISTOR	
Q23		2SA1048(Y,G,R)	TRANSISTOR	
Q23		2SA1175(F,E)	TRANSISTOR	
Q23		2SA1309A(Q,R)	TRANSISTOR	
Q23		2SA933S(Q,R)	TRANSISTOR	
Q24 ,25		2SC3003(L,K)	TRANSISTOR	
Q26		2SC2878(B)	TRANSISTOR	
Q27		2SA1048(Y,G,R)	TRANSISTOR	
Q27		2SA1175(F,E)	TRANSISTOR	
Q27		2SA1309A(Q,R)	TRANSISTOR	
Q27		2SA1309A(Q,R)	TRANSISTOR	
Q27		2SA353S(Q,K)	TRANSISTOR	
Q31		2SC2003(L,K)	TRANSISTOR	
Q32		2SB764	TRANSISTOR	
Q33		2SC2003(L,K)	TRANSISTOR	
Q34		2SA992(E,F)	TRANSISTOR	
Q35 ,36		2SC1845(F,E)	TRANSISTOR	
Q37		2SA1048(Y,G,R)	TRANSISTOR	
Q37		2SA1175(F,E)	TRANSISTOR	
Q37		2SA1309A(Q,R)	TRANSISTOR	
Q37		2SA933S(Q,R)	TRANSISTOR	
Q38		2SC1740S(Q,R)	TRANSISTOR	
Q38		2SC2458(Y,G,R)	TRANSISTOR	
Q38		2SC2785(F,E)	TRANSISTOR	
Q38		2SC3311A(Q,R)	TRANSISTOR	
AUDIO UNIT (Y,M,X type) 205-367 JAPAN MADE 205-371 SINGAPORE MADE				
C1 ,2		CK45F81H471K	CERAMIC	
C5		CK45F81H151J	CERAMIC	
C7 ,8		CF92FV1H222J	MF	
C9 ,10		C90-3225-05	ELECTRO	
C11 ,12		CF92FV1H154J	MF	
C13 ,14		CE04KW1H282M	ELECTRO	
C15 ,16		C90-3225-05	ELECTRO	
C21 ,22		CE04KW1H010M	ELECTRO	
C23 -26		CK45F81H121J	CERAMIC	
C27 ,28		CK45F81H100D	CERAMIC	
C27 ,29		CK45F81H470J	CERAMIC	
C31 ,32		CK45F81H221J	CERAMIC	
C33 ,34		C90-1845-05	ELECTRO	
C35 ,36		CE04KW1V100M	ELECTRO	

L:Scandinavia K:USA P:Canada  
Y:PX(Far East, Hawaii) T:England E:Europe  
Y:AAFE(S/Europe) X:Australia M:Other Areas

S: SINGAPORE MADE  
F: FRANCE MADE

△ indicates safety critical components.

## PARTS LIST

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Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕
C37 ,38		CC45F81H390J	CERAMIC	
C41 ,42		CE04KW1C220M	ELECTRO	
C43 -46		CF92FV1H473J	MF	
C49 ,50		CF92FV1H103J	MF	
C51 ,52		CF92FV1H223J	MF	
C53 ,54		CE04KW1C100M	ELECTRO	
C71		CE04KW1H470M	ELECTRO	
C72		CE04KW1H221M	ELECTRO	
C81		CF92FV1H102J	MF	
C82		CE04KW1C100M	ELECTRO	
C83		CC45F81H221J	CERAMIC	
C84		CF92FV1H473J	MF	
C86		CF92FV1H472J	MF	
C90 ,91		C90-1966-05	ELECTRO	
C93 ,94		CF92FV1H104J	MF	
C95 -97		CE04KW1C101M	ELECTRO	
C98 ,99		CF92FV1H104J	MF	
C107		CE04KW1H477M	ELECTRO	
C108		CE04KW1H010M	ELECTRO	
C109		CE04KW1A101M	ELECTRO	
C110		CE04KW1C470M	ELECTRO	
C111		CE04KW1C101M	ELECTRO	
C112		CE04KW1H282M	ELECTRO	
C113 ,114		CC45F81H101J	CERAMIC	
C115		C90-3253-05	ELECTRO	
C116		CE04KW1H010M	ELECTRO	
C117		C91-1439-05	FILM	
C118 ,119		CK45F81H103Z	CERAMIC	
C120		CE04KW1C101M	ELECTRO	
C121 ,122		CK45F81H103Z	CERAMIC	
C133		CE04KW1V330M	ELECTRO	
C138 ,139		CF92FV1H104J	MF	
C140 ,141		C91-0769-05	CERAMIC	
C142		CF92FV1H224J	MF	
C230		CE04KW1E101M	ELECTRO	
C231 ,232		CE04KW1V470M	ELECTRO	
C233 ,234		CE04KW1V100M	ELECTRO	
C235		CE04KW1E471M	ELECTRO	
C236		CE04KW1H010M	ELECTRO	
C237		C90-1827-05	BACKUP	
C238		C90-3239-05	ELECTRO	
C243 ,244		C90-3253-05	ELECTRO	
C245 ,246		C90-3237-05	ELECTRO	
J1	2H	E08-1508-05	RECTANGULAR RECEPTACLE(RED)	
J2	2H	E58-0001-05	RECTANGULAR RECEPTACLE(GREEN)	
J3	2G	E20-0459-05	LOCK TERMINAL BOARD(F.SP.)	
J4	2H	E63-0018-05	PHONE JACK(S.WOOFER, SURR.SP.)	
J5	2F	E11-0220-05	MINIATURE PHONE JACK(MIC)	
625	1F, 1G	F20-1284-05	INSULATING BOARD	
△ F1		F05-4025-05	FUSE (SEHK0)	YM
△ F2		F05-2021-05	FUSE (SEHK0)	
△ F3		F05-4025-05	FUSE (SEHK0)	
△ F5 -7		F06-2021-05	FUSE (SEHK0)	
CN6 ,7		J13-0075-05	FUSE CLIP	

L:Scandinavia K:USA P:Canada  
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## PARTS LIST

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Ref. No. 参照番号	Address 位 置	New Parts 新 部 品	Parts No. 部 品 番 号	Description 部 品 名 / 規 格	Re- mark 備 考
CN8 .9 CN10-19			J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP	YN
L1 .2 R37 .40 T1 T1	2C 2C		L39-0085-05 L07-0333-05 L07-0335-05	PHASE COMPENSATION COIL POWER TRANSFORMER POWER TRANSFORMER	X YM
CP1 .2 R39 .38 R37 .40 R41 .42 R43 .44			R90-0187-05 R148X2C1471F R014N82E151J R014N82E222J R014N82E181J	MULTI-COMP 0.22X2 RN 1.47K F 1/6W RN 150 F 1/4W RD 2.2K J 1/4W RD 180 J 1/4W	
R45 .46 R50 R187,188			R014N82E151J R014N82C1003F R014N82E4R7J R514K83D100J R014N82E4R7J	RD 150 J 1/4W RN 100K F 1/6W RD 4.7 J 1/4W FL-PROOF RS 10 J 2W RD 4.7 J 1/4W	
R45 .66 R50 R86 R88 R90 R187,188			RS14K830561J R014N82E221J RD R014N82E101J RS14K830271J R014N82E221J	FL-PROOF RS 560 J 2W RD 220 J 1/4W RD RD 100 J 1/4W FL-PROOF RS 270 J 2W RD 220 J 1/4W	
R202 R204 R225,226 R229 R231			RS14K830121J RS14K830151J R014N82E100J R92-0513-05 RS14K830101J	FL-PROOF RS 120 J 2W FL-PROOF RS 150 J 2W RD J 1/4W FUSE RESIST 10 G 1/4W FL-PROOF RS 100 J 2W	
R236 VR1 VR2 VR3 VR4	2C 2C 2C 2C 2F	*	RS14K830681J R22-9020-05 R10-5043-05 R1-9020-05 R10-5060-05	FL-PROOF RS 680 J 2W POTENTIOMETER(VOLUME CONTROL) POTENTIOMETER(BALANCE) POTENTIOMETER(N.B. CIRCUIT) POTENTIOMETER(MIC MIXING)	
K1 K2 S1 S1 S2 S2		*	S76-0003-05 S76-0005-05 S79-0006-05 S79-0007-05	MAGNETIC RELAY(POWER) MAGNETIC RELAY(FRONT SP.) SWITCH ASSY(80°C CUT FAN) SWITCH ASSY(105°C CUT PROTECT)	
D1 -5 D1 -5 D6 D6 D6 D7 D7			HSS104A 1SS131 H754-7N(8) R04.7ES(8) HSS104A	DIODE DIODE ZENER DIODE ZENER DIODE DIODE	
D10 D10 D11 D11			1SS131 DSS5A20F03 R8V-602LFA H234-7N(8) R04.7ES(8)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE	
D12 D12 D13 .14 D13 .14 D15 -17			HSS104A 1SS131 H255-6N(82) R05.6ES(82) HSS104A	DIODE DIODE ZENER DIODE ZENER DIODE DIODE	
D15 -17 D18 D18 D19 D19			1SS131 H254-7N(8) R04.7ES(8) H2516N(82) R016ES(82)	DIODE ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE	

L:Scandinavia  
K:USA  
T:England  
N:PX(Far East, Hawaii)  
Y:AAFESE(Europe)  
P:Canada  
E:Europe  
X:Australia  
M:Other Areas

## PARTS LIST

\* New Parts  
Parts without Parts No. are not supplied.  
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Ref. No. 參照番号	Address 位置	Part No. 部品番号	Description 部品名/規格	Remarks 備考
D20		S5688	DIODE	
D20		1SR139-100	DIODE	
D22, 23		H5S104A	DIODE	
D22, 23		1SS131	DIODE	
D24		HZS6-8N(B2)	ZENER DIODE	
D24		R06-8ES(B2)	ZENER DIODE	
D25		HZS6-2N(B2)	ZENER DIODE	
D25		R06-2ES(B2)	ZENER DIODE	
D26		HZS11N(B2)	ZENER DIODE	
D26		R011ES(B2)	ZENER DIODE	
D27		HZS16N(B2)	ZENER DIODE	
D27		R016ES(B2)	ZENER DIODE	
D29-32		S5688	DIODE	
D29-32		1SR139-100	DIODE	
D33-44		H5S104A	DIODE	
D33-44		1SS131	DIODE	
D47-58		H5S104A	DIODE	
D47-58		1SS131	DIODE	
IC1		NJM45650-D	IC(OP AMP X2)	
IC2		TA8409S	IC(MOTOR CONTROL)	
IC4		NJM45650-D	IC(OP AMP X2)	
IC6		PST529C	IC(SYSTEM RESET)	
IC7		TA7815S	IC(VOLTAGE REGULATOR/ +15V)	
IC7		UPC7815AHF	IC(VOLTAGE REGULATOR/ +15V)	
Q1, 2		2SC1845(F,E)	TRANSISTOR	
Q5-8		2SA992(F,E)	TRANSISTOR	
Q9-12		2SC1845(F,E)	TRANSISTOR	
Q13, 14		2SA992(F,E)	TRANSISTOR	
Q15, 16		2SC4137(V,W)	TRANSISTOR	
Q17, 18		2SD2340	TRANSISTOR	
Q19, 20		2SB1531	TRANSISTOR	
Q21, 22		2SC1845(F,E)	TRANSISTOR	
Q23		2SA1123(R,S)	TRANSISTOR	
Q24, 25		2SC1845(F,E)	TRANSISTOR	
Q26		2SC2003(L,K)	TRANSISTOR	
Q29		2SC2878(B)	TRANSISTOR	
Q30		2SA1048(Y,GR)	TRANSISTOR	
Q30		2SA1175(F,E)	TRANSISTOR	
Q30		2SA1309A(Q,R)	TRANSISTOR	
Q30		2SA933S(Q,R)	TRANSISTOR	
Q35, 36		2SC2878(B)	TRANSISTOR	
Q37		2SA1048(Y,GR)	TRANSISTOR	
Q37		2SA1175(F,E)	TRANSISTOR	
Q37		2SA1309A(Q,R)	TRANSISTOR	
Q37		2SA933S(Q,R)	TRANSISTOR	
Q38		2SC1740S(Q,R)	TRANSISTOR	
Q38		2SC2458(Y,GR)	TRANSISTOR	
Q38		2SC2785(F,E)	TRANSISTOR	
Q38		2SC3311A(Q,R)	TRANSISTOR	
Q40		DTC124ES	DIGITAL TRANSISTOR	
Q40		UN4212	TRANSISTOR	
Q52		2SC2003(L,K)	TRANSISTOR	
Q53		2SA954(L,K)	TRANSISTOR	
Q60		2SA1534(R,S)	TRANSISTOR	
Q61		2SD2061(E,F,G)	TRANSISTOR	

S: SINGAPORE MADE  
 F: FRANCE MADE  
 ▲ indicates safety critical components.

## PARTS LIST

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Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 任	Re- marks 向番号
962		2SC2003(L, K)	TRANSISTOR		
963		2SA992(F, E)	TRANSISTOR		
DISPLAY UNIT (All destination) X14-382: JAPAN MADE X14-384: SINGAPORE FRANCE MADE					
D201, 202		B30-1291-05	LED		
C1 -4		CK45FF1H103Z	CERAMIC	0.010UF Z	
C5		CE04KH1C470M	ELECTR0	470UF 16WV	
C6 , 7		CK45FF1H103Z	CERAMIC	0.010UF Z	
C8		CE04KH1H470M	ELECTR0	0.47UF 50WV	
C9		CC45FSL1H101J	CERAMIC	100PF J	
C10		CE04KH1H2R2M	ELECTR0	2.2UF 50WV	
C11		CE04KH1H3R3M	ELECTR0	3.3UF 50WV	
C12		CK45FF1H103Z	CERAMIC	0.010UF Z	
C13		C92PM1H1S3J	MYLAR	0.015UF J	
C14 , 15		CK45FF1H223Z	CERAMIC	0.022UF Z	
C16		CE04KH1V4R7M	ELECTR0	4.7UF 35WV	
C17		CK45FF1H223Z	CERAMIC	0.022UF Z	
C18		CE04KH1V100M	ELECTR0	10UF 35WV	
C19		CK45FF1H223Z	CERAMIC	0.022UF Z	
C20		CE04KH1V100M	ELECTR0	10UF 35WV	
C21 , 28		C90-3230-05	ELECTR0	100UF 16WV	YMX
C27 , 28		C92PM1H1S3J	MYLAR	0.015UF J	KP
C27 , 28		C92PM1H223J	MYLAR	0.022UF J	TE
C27 , 28		C92PM1H392J	MYLAR	3900PF J	
C29 , 30		C90-3253-05	ELECTR0	1UF 50WV	
C41 , 42		CC45FCH1H220J	CERAMIC	22PF J	
C43 -45		CK45FB1H471K	CERAMIC	470PF K	
C46 , 47		CK45FF1H103Z	CERAMIC	0.010UF Z	
C48		C92PM1H273J	MYLAR	0.027UF J	
C49		CE04KH1H010M	ELECTR0	1.0UF 50WV	
C50		CE04KH1C470M	ELECTR0	470UF 16WV	
C51		CE04KH1H010M	ELECTR0	1.0UF 50WV	
C52		CE04KH1A470M	ELECTR0	470UF 10WV	
C55		CK45FF1H103Z	CERAMIC	0.010UF Z	
C56		CC45FSL1H220J	CERAMIC	22PF J	
C62 -64		C90-3253-05	ELECTR0	1UF 50WV	
C65		C90-3249-05	ELECTR0	0.22UF 50WV	
C66		C90-3244-05	ELECTR0	100UF 35WV	
C67 , 68		CC45FSL1H101J	CERAMIC	100PF J	KPYMX
C67 , 68		CC45FSL1H271J	CERAMIC	270PF J	TE
C69		CE04KH1V100M	ELECTR0	10UF 35WV	
C70		CC45FSL1H561J	CERAMIC	560PF J	
C71		C92PM1H103J	MYLAR	0.010UF J	
C106		CE04KH1C470M	ELECTR0	470UF 16WV	
C107		CK45FF1H223Z	CERAMIC	0.022UF Z	
C108		CK45FF1H223Z	CERAMIC	0.022UF Z	TE
C109, 110		C91-0085-05	CERAMIC	0.022UF N	TE
C111-114		CK45FF1H223Z	CERAMIC	0.022UF Z	TE
C135, 136		C92PM1H682J	MYLAR	6800PF J	YM
C170		CC45FSL1H101J	CERAMIC	100PF J	TE
C171		CC45FSL1H470J	CERAMIC	47PF J	TE
C202		CC45FCH1H220J	CERAMIC	22PF J	
C203		CE04KH1A101M	ELECTR0	100UF 10WV	
C204, 205		C91-0769-05	CERAMIC	0.01UF K	

S: SINGAPORE MADE

F: FRANCE MADE

A indicates safety critical components.

L: Scandinavia

K: USA

P: Canada

Y: (P) Far East, Hawaii

T: England

E: Europe

Y: AMFES (Europe)

X: Australia

M: Other Areas



# A-A5/A5L

## PARTS LIST

**\* New Parts**

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Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 商品名 / 規格	Desti- nation 仕向備考	Re- marks 備考
D120			BZX55-C3V3	ZENER DIODE		F
D120			HZ53.3N(B2)	ZENER DIODE	TE	
D120			RD3.3ES(B2)	ZENER DIODE	TE	
D122			HSS104	DIODE	TE	
D122			1N4148	DIODE	TE	
D122			1SS133	DIODE	TE	
D122			HSS104	DIODE	TE	
D122			1N4148	DIODE	TE	
D122			1SS133	DIODE	TE	
D122			HSS104	DIODE	TE	
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D122			1N4148	DIODE	TE	
D122			1SS133	DIODE	TE	
D122			HSS104	DIODE	TE	
D122			1N4148	DIODE	TE	
D122			1SS133	DIODE	TE	
D122						

S. SINGAPORE MADE

L:Scandinavia

**F: FRANCE MADE**

Y: AAFES(Europe)  
X: Australia  
M: Other Areas

A indicates safety critical components.

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# A-A5/A5L

## PARTS LIST

\* New Parts  
 Parts without Parts No. are not supplied.  
 Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
 Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕	Re- marks 備考
Q102		25A1309A(Q,R)	TRANSISTOR	TE	S
Q103		25A933S(Q,R)	TRANSISTOR	TE	
Q103		JA101(P,Q)	TRANSISTOR	TE	
Q103		25A1048(Y,GR)	TRANSISTOR	TE	
Q103		25A1175(F,E)	TRANSISTOR	TE	
Q103		25A1309A(Q,R)	TRANSISTOR	TE	
Q103		25A933S(Q,R)	TRANSISTOR	TE	
Q104		JA101(P,Q)	TRANSISTOR	TE	S
Q104		25A1048(Y,GR)	TRANSISTOR	TE	
Q104		25A1175(F,E)	TRANSISTOR	TE	
Q104		25A1309A(Q,R)	TRANSISTOR	TE	
Q104		25A933S(Q,R)	TRANSISTOR	TE	
Q105, 106		JC501(P,Q)	TRANSISTOR	TE	S
Q105, 106		25C1740S(Q,R)	TRANSISTOR	TE	
Q105, 106		25C2458(Y,GR)	TRANSISTOR	TE	
Q105, 106		25C2785(F,E)	TRANSISTOR	TE	
Q105, 106		25C3311A(Q,R)	TRANSISTOR	TE	
Q107, 108		25C2458(Y,GR)	TRANSISTOR	YM	
Q107, 108		25C3311A(Q,R)	TRANSISTOR	YM	
Q109, 110		25D1302(S,T)	TRANSISTOR	YM	
Q111		JA101(P,Q)	TRANSISTOR	YM	S
Q111		25A1048(Y,GR)	TRANSISTOR	YM	
Q111		25A1175(F,E)	TRANSISTOR	YM	
Q111		25A1309A(Q,R)	TRANSISTOR	YM	
Q111		25A933S(Q,R)	TRANSISTOR	YM	
Q201, 202		25C4038(Q,R)	TRANSISTOR	YM	
Q203		25A1561(Q,R)	TRANSISTOR	YM	
A1	3B, 3F	W02-1046-05	ELECTRIC CIRCUIT MODULE	TE	
DT1	2D, 2H	W02-1041-15	FM FRONT-END ASSY	KPYMX	
DT1	2D, 2H	W02-1042-15	FM FRONT-END ASSY	KPYMX	

L: Scandinavia  
 Y: PX (Far East, Hawaii)  
 Y: AA (ES/Europe)  
 K: USA  
 T: England  
 X: Australia  
 P: Canada  
 E: Europe  
 M: Other Areas  
 S: SINGAPORE MADE  
 F: FRANCE MADE  
 A indicates safety critical components

## SPECIFICATIONS

<K,P type>

### Receiver unit (A-A5)

#### Amplifier section

##### Rated power output

28 watts per channel minimum RMS, both channels driven, at 8  $\Omega$  from 40 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion

Total harmonic distortion

..... 0.09 % (40 Hz ~ 20 kHz, 1/2 Rated power, 8  $\Omega$ )

..... 0.06 % (1 kHz, 1/2 Rated power, 8  $\Omega$ )

Signal to noise ratio

..... 95 dB (HF'66) / 80 dB (HF'78)

Input sensitivity / Impedance

LD / AUX IN ..... 150 mV / 47 k $\Omega$

N.B. circuit (-30 dB Volume level)(max.) ..... +15 dB

Output level / Impedance

SUPER WOOFER OUT ..... 1.5 V / 3.6 k $\Omega$

#### FM Tuner section

##### Tuning frequency range

..... 87.5 MHz ~ 108 MHz

Sensitivity (MONO at 75  $\Omega$ ) ..... 1.2  $\mu$ V / 12.8 dBf

Total harmonic distortion (at 1 kHz)

MONO ..... 0.5 % (65 dBf input)

STEREO ..... 0.6 % (65 dBf input)

Signal to noise ratio (at 1 kHz)

MONO ..... 80 dB (85 dBf input)

STEREO ..... 74 dB (85 dBf input)

Selectivity ( $\pm$  400 kHz) ..... 50 dB

Stereo separation (at 1 kHz) ..... 40 dB

Frequency response ..... 30 Hz ~ 15 kHz + 0.5 dB, -3 dB

#### AM Tuner section

##### Tuning frequency range

..... 530 kHz ~ 1,700 kHz

Usable sensitivity ..... 10  $\mu$ V / (500  $\mu$ V / m)

Signal to noise ratio

(at 30 % mod. 1 mV input) ..... 48 dB

#### [General]

Power consumption ..... 120 W

Dimensions ..... W: 270 mm (10-5 / 8")

H: 120 mm (4-3 / 4")

D: 332 mm (13-1 / 16")

Weight (Net) ..... 6.5 kg (14.3 lb)

